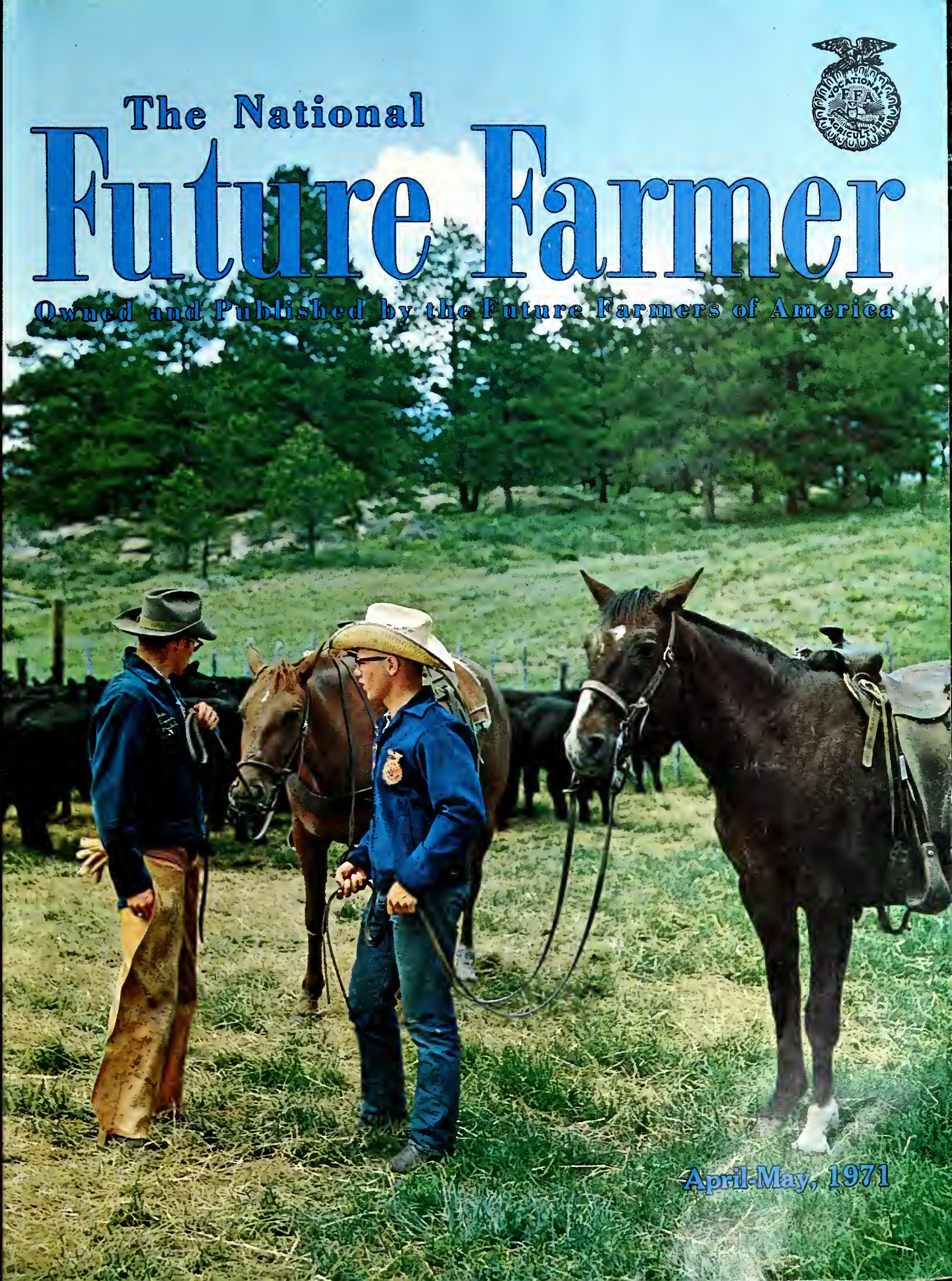

The National Future Farmer

Owned and Published by the Future Farmers of America

April-May, 1971

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Announcing New Winchester Bolt Action 22s.

Made in the old-line Winchester tradition of quality.

Model 310 Single Shot: $44.95

Model 320 5-Shot Clip: $57.50

Actually, the newest Winchester 22s have borrowed a lot from the lessons we learned in the past.

Take the styling. It's been around since 1937 on our famed Model 70 center fire. Since sportsmen around the world for years have expressed their satisfaction with the way the Model 70 looks and handles, we thought it would be good if you could have Winchester rim fire rifles that were equally rugged, handsome, and accurate. Now you can.

The craftsmanship has been around for awhile too. The 300s are built with solid, old-line Winchester quality throughout, from American walnut stocks to Winchester Proof Steel barrels and machined steel receivers; quality that's been synonymous with the name "Winchester" since 1866.

Polished bolt handle and positive safety.

Wide, serrated trigger and polished trigger guard.

Solid American walnut stock with sling swivels.

We hope you won't take our word for it. See the new 300s for yourself at your favorite dealer. Pick 'em up and feel and see the workmanship. Work the smooth, precision-built action. Squeeze the crisp, competition-style trigger. These new bolt action 22s are going to sell themselves.

That's another Winchester habit that comes from way back. And we're too old to change it now. Winchester-Western, 275 Winchester Ave., New Haven, Conn., 06504.

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Quality-made by professional shooters.

The National
Future Farmer

VOLUME 19 NUMBER 4 APRIL-MAY, 1971

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FFA In Action 34

Our Cover

Even though this scene brings some of the nostalgia of the "Old West" into your home, Chuck Ferguson, an American Farmer, and his brother Tam, a State Farmer, raise their cattle in modern fashion. They live on a 23,000-acre ranch near Cheyenne, Wyoming, and along with their sister Mary Lou, are members of the Frontier FFA. Advisor Clark Allen, vo-ag instructor at East High School, also guided an older brother to the American Farmer degree.

Photo by Floyd Cashmon

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Name Change?

A ROSE by any other name would smell the same. Or would it? Would the Future Farmers of America—or FFA—be the same organization with another name?

The question of changing the name of the organization has been with us for years. Now it is being raised again with increased frequency and by some people with a record of sound judgement in matters relating to FFA. They feel the name should be more in keeping with the times and the instructional program being offered in vocational agriculture—or agribusiness and natural resources education as it is being called in the U.S. Office of Education.

Many feel we need a term much broader than "Farmer" to describe the membership of the organization because not all members plan to become farmers. Career objectives of members range all the way from horticulture to machinery sales and service, and while they do not want to be called farmers, they do want the experience of participating in the FFA.

What name would suit all the students in the field of vocational agribusiness? Several have been suggested.

There seems to be almost unanimous agreement on one point. We must keep the letters "FFA." In this way, many feel FFA can hold on to its proud heritage.

While such a "vote" is not binding on anyone, we would like to know what you think the name of the organization should be. Just jot your suggestion on a post card and mail it to Name Change, *The National FUTURE FARMER*, Box 15130, Alexandria, Virginia 22309.

They're Great Guys!

Members of the farm press were in Des Moines, Iowa, on March 1, for a special background briefing on Rural America. President Nixon headed a distinguished group that included four Cabinet members.

Before the meeting, the President greeted each of us individually. When it came my turn, I explained that I work for the Future Farmers of America.

Mr. Nixon replied, "Why yes, I know your group. I have spoken to them and have seen them at the White House. They're great guys!"

Wilson Carnes, **Editor**

The higher the horsepower, the more you need 23° bar angle Deep Treads.

We figure you buy a bigger tractor because you've got more work to do—and less time to waste.

That's what Deep Treads are all about. More pull, more hours per tire than any comparably priced tire. The tread, with its 23° bar angle, is the widest, size for size, of any made. And the bite is deeper—25% deeper at center tread than our original equipment tires, 42% deeper at the shoulder.

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In short, Deep Treads are made with Firestone Triple-Strength Construction. To keep on pulling and pulling. To give you the most tire your money can buy.

Firestone

For Triple-Strength Construction: that's the way we bond the tread to the body, reinforce the sidewalls and insulate every cord.

Looking Ahead

Livestock

DAIRY PRODUCTS—Several new dairy products are currently being developed. USDA scientists have developed a new protein food made by frying milk curd in deep fat. The product, which has a meat-like texture, can be canned in a flavored gravy or used for snacks, hors d'oeuvres, or confections. Another product, milk-orange juice drink, is now being market tested by Dairy Development, Inc. Sugar and stabilizer prevent the light yellow, slightly acid tasting drink from curdling. The same company is marketing iron-fortified whole milk. Fortification is an attempt to correct the situation, pointed out by the White House Nutrition Conference, that a large portion of children and females in the United States are deficient in iron.

SWINE EFFICIENCY—"The 1971 Pork Outlook," a recent special television program in the midwest, made some suggestions for increasing swine production efficiency in the coming year. (1) Extend the limited corn crop by avoiding feed wastage. (2) Stretch the available corn supply with proper protein use. (3) Use antibiotics to increase growth rate and improve feed efficiency. (4) Protect health of young pigs and push them to market early with good disease control programs and sound nutrition. The program, sponsored by Elanco Products, also stated that the summer holds the key to increased profits as a small winter pig crop will result in more favorable hog prices.

VETERINARY CORPS—The United Nations General Assembly has created an international veterinary corps which calls for 1,300 volunteers by June of this year. The corps plans to center its teaching and advising roles around current and new United Nations assistance programs in developing nations. Recently graduated students and veterinary doctors from around the world will participate in the worldwide veterinary program. The concept of the international veterinary corps originated with Dr. James Cunningham, now of the University of California, and Dr. Peter Schantz, World Health Organization, Argentina, in 1967.

Crops

PRECISION PLANTING—A field-proven precision planting system has been introduced by Union Carbide in cooperation with Keystone Seed Company of Hollister, California. The system, called Evenseed, uses a water-soluble plastic tape in which seeds are sealed at carefully spaced intervals and can be used on all types of crops, especially vegetables. Seed tape planting is said to provide uniform emergence, uniform stands, reduced labor costs for planting and thinning, more uniform maturity, higher yields, and improve crop quality. Furthermore, conventional seed planters are easily converted to handle seed tape, even though seed tape planters are on the market.

BLIGHT MANAGEMENT—Planting corn early will give some protection against corn blight damage, say extension agronomists. Three advantages for 1971 are: (1) Early planted corn runs a chance of being well along in maturity before the blight hits. (2) If poor germination or seedling blight damage occurs, farmers still have time to seed soybeans, sorghum, or another substitute crop. (3) Even with the seeding of all blight resistant (normal N-cytoplasm) seed, early planting has yield advantages over late plantings.

WOOD DEMAND—The U.S. Forest Service estimates that by 1985 the demand for wood and wood fiber will exceed the annual growth in our forests. Recycling of wood fiber can help to relieve this pressure. Thus, the Forest Service is gathering information to recover the wood fiber in municipal solid wastes. Possibilities for reusable wood fiber are boxboard, synthetic lumber materials, newsprint, hardboard, printing papers, wrapping paper, and toweling.

SOYBEAN DEVELOPMENTS—The first completely male sterile soybean line known to plant breeders has been discovered by Dr. Charles Brim, a USDA agronomist working at North Carolina State University. The male sterile character will enable plant breeders to develop higher yielding and higher quality soybeans and may well be the forerunner to hybrid soybeans. Meanwhile, "a stress test" designed to determine the field emergence of carryover soybean seed has been developed at an Iowa State University seed testing laboratory. Tests show that storage conditions, rather than age of the seed, determine the ability to emerge in the field. Soybeans stored under low temperature and low humidity conditions usually produced satisfactory stands.

Management

LOAN AGREEMENT—The Farm Credit Administration and the Farm Home Administration (FHA) have entered into a formal agreement which will facilitate the making of long term farm real estate loans to the same borrower. Under the agreement, Federal Land Banks (FLB) and state FHA directors will be able to provide simultaneous processing of initial farm ownership loans by the FHA and long term real estate loans by the FLB to mutual borrowers. The FLB will hold the first mortgage on the farm with the FHA subordinating its mortgage to the Federal Land Bank lien. The broadened policy will provide mortgage credit to worthy applicants—particularly young farmers—who probably would not otherwise be served.

FARM LAW—More industrial type laws will gradually be applied in more states to hired farm workers according to a University of Missouri agricultural economist. He adds that issues are strikes by farm labor, workmen's compensation, and unemployment compensation. Another economist from the University of Illinois believes that as farm operations become larger and more mechanized labor policies toward farm workers will become more like those applying to workers in business and industry.

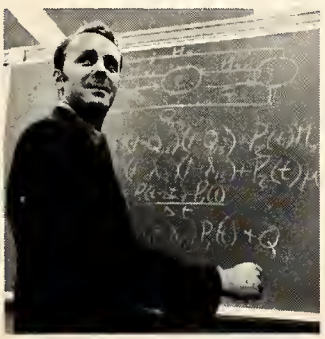
AGRICULTURE ECOLOGY—You can look for the USDA to put priority attention on some major environmental objectives in the early 1970's. These will include seeking a sound workable land use policy and improving food safety and food quality and nutrition. In addition, said Under Secretary J. Phil Campbell, rural development—including adequate and improved community services—and overcoming environmental degradation are other priority objectives.

This modeler has a system that guides 365 tons of plane—with no strings.

Every modeler likes to fly bigger and bigger planes, but Wally Sterner's hobby has gotten a little out of hand. When he's not flying his ½-hp. stunter, Wally leads a group of engineers at GM's AC Electronics Division in Milwaukee. His job is to help assure the reliability of AC's Carousel IV, the automatic inertial navigation system for Boeing's 747 super jet.

Carousel IV is self-contained. It automatically navigates the super jet and maintains phenomenal accuracy without magnetic, radio, or other aids. And it's unaffected by weather. With it the 747 pilot always knows his position. At the touch of a button, he can have exact data on speed, time and distance to destination. Any information he needs is given accurately and up to the split second.

Needless to say, it's a complicated device. There are accelerometers, gyroscopes, and a digital computer. Thousands of high-precision parts. Each must be manufactured and assembled with minimal error. That's where Wally comes in. From early prototype stages, he and his team have been evaluating design and airline operating experiences to assure product excellence. Wally calls it reliability engineering.



The results of their work can be seen in the performance record. The 747 flies with a precision that matches its size.

Carousel IV is a spin-off of another AC project, the guidance systems for the Apollo Command and Lunar Modules. With the know-how from that success, Wally and his co-workers have brought improved efficiency and safety to the airways by taking navigation from the Age of Columbus to the Age of Armstrong, Collins and Aldrin.

GM
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Scholarship winners get the complete home study course in commercial art taught by Art Instruction Schools, Inc., one of America's leading home study art schools.

Try for an art scholarship in advertising art, illustrating, cartooning and painting. Your entry will be judged in the month received but not later than May 31, 1971. Prizes awarded for best drawings of various subjects received from qualified entrants age 14 and over. One $25 cash award for the best drawing from entrants age 12 and 13. No drawings can be returned. Our students and professional artists not eligible. Contest winners will be notified. Send your entry today.

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Please enter my drawing in your monthly contest.

(PLEASE PRINT)

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Occupation_____ Age_____

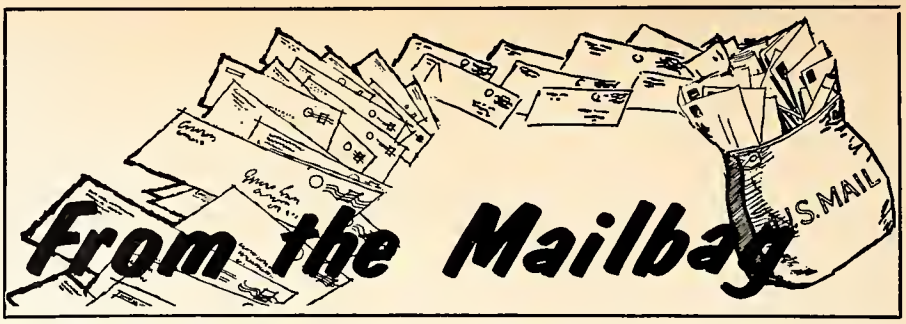
Address_____ Apt._____

City_____ State_____

County_____ Zip Code_____

Telephone Number_____

Accredited by the Accrediting Commission of the National Home Study Council.



Williamsport, Maryland

I would like to know why we cannot wear American flags on our FFA jackets?

I've heard of chapters in West Virginia and Delaware wear them and nothing is said. Please write an article explaining the importance of this issue. Our flag is a national symbol. It shows people that FFA members are loyal to our country. And tell of all the people dying for the great nation of ours wearing an American flag, showing that he or she is willing to die for this flag.

Please help us win this battle to get to wear the American flag on our Future Farmers of *"America"* jacket.

Mark Solomon

We are not sure why your local FFA advisor will not let you wear the flag on your jacket but the Official FFA Manual states on page 112 of both the 1970 and 1971 edition, "never use it as a part of a costume or uniform." Some feel this does not show proper respect for the flag. Others would want to wear the American flag with a great deal of pride to show that they are patriotic. There are arguments on both sides of this question. Perhaps you could wear one of the new flag pins rather than sew on anything.

Your strong feelings of patriotism are characteristic of most FFA members.—Ed.

Pittsboro, North Carolina

A picture in the February-March issue had a picture of two boys holding a big pumpkin. Do you know their address? I would like some of the seeds if I could.

Jimmy Marley

Hanna City, Illinois

Would it be too much trouble to mail Jay Johnson's magazine to him in a plain wrapper so postal authorities will not keep it? He is in the Peace Corps in South America in the agriculture program. He was a State Farmer in 1968.

Mrs. Albert Johnson

Sorry Jay is not getting his copy. Good to know it is popular even in South America.—Ed.

Cambridge, New York

We are very much pleased with our Official FFA Calendar. Our farmer patrons seem to enjoy receiving them.

Macauley's Bulk Milk
Sponsor for Cambridge Valley FFA

Lafayette, Indiana

Thank you for the excellent story in the February-March issue on Merrill Kelsay, last year's Star Farmer of America. All of us in Indiana are very proud of Merrill and are confident that he is the kind of young man who is truly a Star Farmer.

Merrill continues to do exceptionally good work both in farming and in community leadership. We hope that he has an opportunity to tell his story to as many people as possible during the coming year, and we will make an effort to see that he does have this opportunity.

Merrill's teacher, Jim Cummings, has commented a number of times on the wonderful publicity that has been given to Merrill and to the Whiteland FFA Chapter. I know that Jim would be most happy to provide any additional information that you or other people involved in publicizing the FFA desire.

In the meantime, if there is anything that we can help you with as you work toward a continuing better FFA magazine, please do not hesitate to call on me.

James P. Clouse, Chairman
Agricultural Education Section
Purdue University

Champaign, Illinois

Thank you for the complimentary copies of your February-March issue with my story on the conservation planning contest. I was well pleased with the story.

I was also very interested in the story on minimum tillage. We in the Soil Conservation Service believe minimum tillage is one of the more effective conservation practices which farmers can use on cropland. We appreciate your efforts to expose the young farmers to this practice.

Jerry D. Schwien
USDA, SCS Information Specialist

Centerville, Tennessee

I enjoy the magazine very much and read every issue two or three times.

Please consider a few things I wish the magazine had more articles about.

Any of the articles on FFA are always interesting. I wish you would have more articles on the FFA in different parts of the nation. Show FFA in the West compared with the South, East, and North. I wish the magazine had more articles that would stir up FFA members and make them strive to be better FFA'ers.

The magazine needs more articles telling about the National Officers and leaders. Chapter officers especially would like to know more of what the National Officers do.

Dwaine Johnston

Sicily

I have been a member of the FFA since 1965 but am currently stationed in Sicily for 18 months. I have several copies of *The National FUTURE FARMER* and especially like your recent "FFA In Action" articles.

I was raised on a farm and intend to work on one when I get out of the Navy. My home town is in Wisconsin.

Terry Wepperfurth

If you're going to college to be a leader, why not take the leadership course?

You have the potential. Develop it. Include Army ROTC in your curriculum.

Army ROTC develops your skills in handling men and job responsibilities. Skills which will be valuable to you all your life, whether you decide to be an officer in the Army or in a civilian firm.

Army ROTC also offers scholarships, awarded on ability and performance. They include tuition, books, fees and a personal cash allowance.

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NFF 4-71

Army ROTC
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Tell me all about your Army ROTC offer.

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State _____ Zip _____

I plan to enroll at _____

Modesto, California, FFA organized a hunter safety class taught by a warden from the state fish and game division.

For the Good

That's what chapter projects and activities are for!

By Ron Miller

FFA chapters can supply meaningful and rewarding experiences to members and local citizens alike. To do this, chapters provide activities that involve all of the membership. Some fulfill this purpose better than others, that's why they receive a national emblem award.

The photos on these two pages illustrate many unusual and different activities done by outstanding national emblem winning chapters. You may already be implementing in your chapter some of the things shown here. But perhaps some can be incorporated into your chapter's program.

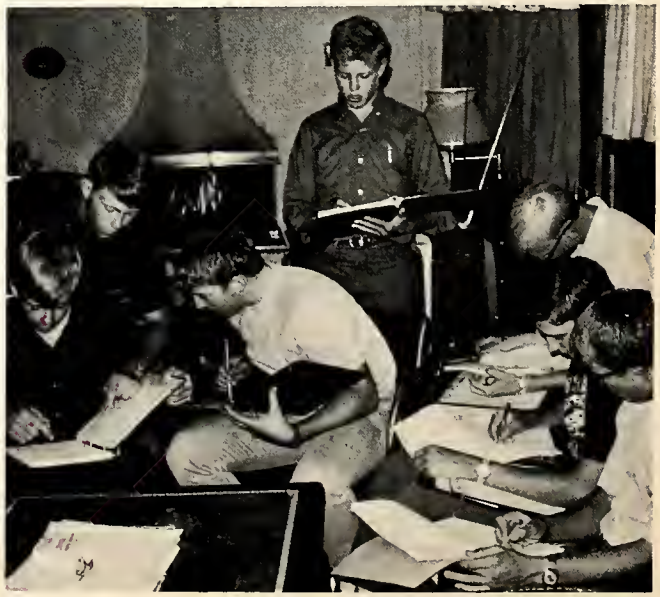
For some members experiences in agriculture, chapter meetings, state and national activities, and leadership highlight their FFA career. For others, however, chapter projects, cooperative ventures, public relations, community service, and safety activities provide the main interest. Some members find their real challenge in scholastic and recreational areas.

One of the activities pictured here might just spark a new and exciting idea for your chapter.

In Ladysmith, Virginia, the C. T. Smith Chapter sponsors local radio shows. Members here taped a safety program.

Members of the Slidell, Louisiana, FFA conduct meat cutting demonstrations and other clinics for civic groups.

New officers of the Eaton Chapter in Colorado, went on a retreat to the Rocky Mountains to plan their year's work.



# of All

Members of the Ninnekah, Oklahoma, FFA swine co-op learn to work with farm suppliers as they purchase their feed.

In Cheyenne, Wyoming, the Frontier FFA Chapter prepares Christmas gift baskets to donate to the Salvation Army.

The scholastic committee of the Gadsden FFA at Anthony, New Mexico, maintains the ag library and magazine shelf.

Basketball is a prime activity of the Limestone Chapter in Maine. Their opponents here are the Easton FFA'ers.

The Ruby Mountain Chapter at Elko, Nevada, purchased and halter broke 20 feeders for California members to raise.

Involved in America's Future

A Who's Who American

From the 2,750,000 junior and senior high school students across the nation 62,500 were selected as Who's Who Among American High School Students. Among this 2.2 percent was Alfonsa Ragin of the Manchester FFA, Furman High School, Pinewood, South Carolina.

Alfonsa, valedictorian and president of his senior class, was also named an Outstanding American High School Student and an Outstanding Teenager of America in 1970. Moreover, he received Furman High's "I Dare You" leadership award, and in March of last year, he attended the fifth session of the Presidential Classroom for Young Americans in Washington, D.C.

All of this recognition began rather innocently when Alfonsa won first place in an FFA quiz contest at a state leadership training workshop. After winning the chapter public speaking award, the ambitious leader served as business manager of the student council, reporter for the junior class, and president for both the band and library club.

As a writer Alfonsa esteemed himself by winning an essay contest, writing and directing band plays, as a sportswriter, and writing the senior class play.

Presently, Alfonsa is a Freshman at South Carolina State College in Orangeburg, studying business administration. He is a member of the Student Christian Association and a student library assistant. For church, the all around citizen serves as a Sunday school teacher and on the usher board.

Speaking about FFA, where he earned the State Farmer degree along with his chapter's agricultural achievement cup, Alfonsa says, "In no other course and organization would I have been able to acquire so much leadership training and be challenged to become a young man in action and not in words."

All Around-Outstanding

Jim Purcell recently received the 1970 Outstanding Teenager of New Mexico honor from the Outstanding Americans Foundation, sponsors of the national awards program which recognizes and encourages the ability and achievements of today's young people.

Jim, a member of the San Jon Chapter, began distinguishing himself by winning the chapter creed contest. The New Mexico youth, a former secretary and the current state president of the New Mexico FFA Association, soon held local positions as secretary, vice president, and president, and gained the Chapter Star Farmer award.

In the New Mexico Junior Hereford Association the young leader held the offices of director, treasurer, and vice president. He further served as a delegate to the organization's national convention in 1968. In 4-H, Jim was twice named outstanding boy in his county, won the state photography contest, and served as county council president.

Jim was a varsity player in basketball and baseball, but he excelled in music, being the Best All Around Male Music Student at his school. Furthermore, he officiated as president of San Jon Municipal Schools Student Body, class president, and class treasurer. The honor student, twice a delegate to the National FFA Convention, earned the superintendent's special award for Best All Around Student and attended New Mexico's Boys' State where he was elected State Land Commissioner.

In the future Jim plans to help others achieve as he is majoring in agricultural education at New Mexico State University. And as Mr. John Putman, president of the Outstanding Americans Foundation, says about young people like Jim, "They are America's leaders of tomorrow."

Spokesman for Youth

Serving on the President's Council on Drug Abuse led to an appearance on a drug abuse radio show for Kevin Hall of Gaithersburg, Maryland. Besides Kevin, the show included health officials, legal authorities, and drug addicts. It was aired in four states.

Kevin, the past Maryland FFA Association president, writes and announces his own farm show on WMHI Radio, Braddock Heights, Maryland. Recently the young leader appeared on a National FFA WEEK radio and television promotion that reached all of the New England states. He also writes for the Maryland Sheep Breeders newsletter and the state Farm Bureau magazine.

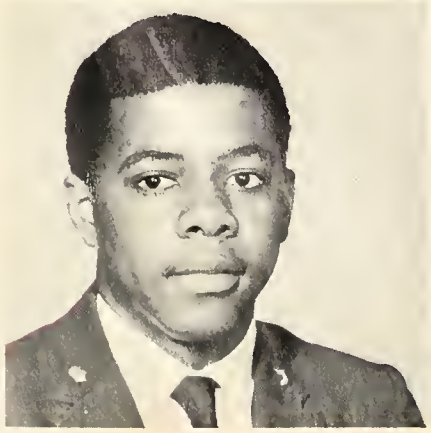
Additionally, Kevin has attended the National Agriculture Youth Institute in Omaha, Nebraska, as a state delegate, and in the Farm City Youth Cabinet of the Washington, D.C., Maryland, and Virginia area he has served as vice president. The youth cabinet is the only one of its kind—holding exchange field trips in cities and rural areas.

In addition to winning the National FFA Public Speaking Contest, Kevin won the American Farm Bureau Federation's National Discussion Meet and speaks at numerous civic, county, and farm meetings. The young speaker has been chosen nationally as a 4-H All Star and excelled in high school forensics.

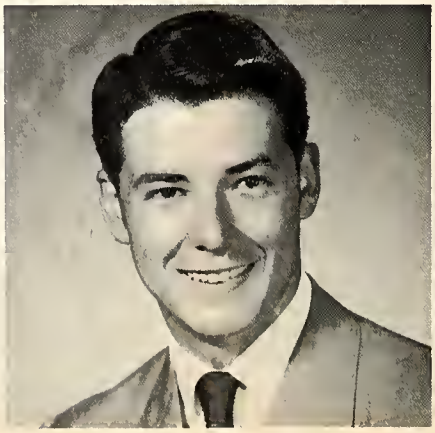
Says Kevin, a State Star Farmer, "My public speaking really began by giving oral reasons in livestock judging."

In Youthpower, sponsored nationwide by the National Food Conference Association, Kevin won state and national honors. Subsequently, he served on the White House Conference on Food, Nutrition, and Health. Now, Kevin, who is majoring in communications and law at college, is serving on the White House Conference for the Aged.

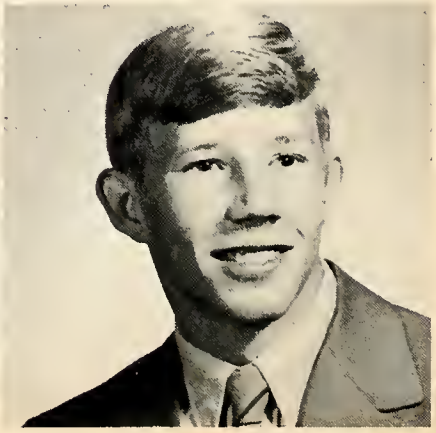
Alfonsa Ragin



Jim Purcell



Kevin Hall



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Spearheading An Attack on Parasites

Augusta County, Virginia, cattlemen are earning added profit by following the lead of local FFA members and Young Farmers. ***By Jerry Davis***

Young Farmer Clay Hewitt, who with his father and brother annually feed 1,500 head, finds grub control pays.

INNOVATION in beef cattle management knows no age limit. Often in this business, it's the young rookies—unhobbled by tradition and supercharged with enthusiasm—who set the pace for the seasoned veterans.

Prime examples are the FFA chapter and Young Farmer association of Buffalo Gap High School, Swoope, Virginia. These two progressive-minded groups, coached by Vocational Agriculture Instructors E. D. Reeves and G. R. Kinzie, don't miss a bet when it comes to promoting new, sound beef practices.

County-Wide Campaign

Their latest team effort: A county-wide campaign to sell the profit idea of regular, effective lice and grub control in beef cattle. Advisor Reeves tells us about it.

"Beef cattle is the top agricultural income-producer here in Augusta County," he reports. "We've always been strong in the cow-calf business, and feedlot finishing is on the upswing."

Yet, the advisor points out, far too many cattlemen in Virginia—his county included—shortchange themselves by not cracking down on lice and grubs. "With today's tougher competition and slim profit margins in both cow herds and the feedlot, the economics dictate the need for sure control of external parasites," Advisor Reeves continues.

Kickoff in 1968

With this as a backdrop, Reeves and the FFA and Young Farmer members decided two years ago to mount their campaign. They adopted a two-prong approach. First, they "talked up" the economic losses of lice and grubs to make local cattlemen more aware of how serious the problem was and how much loss they were taking each year.

Next came the "convincer" phase of their campaign. They followed through by treating their own feeder and cow-calf enterprise to demonstrate to themselves—and to neighboring cattlemen—the dollar returns of effective control.

For technical assistance, the Buffalo Gap Chapter and Young Farmers drew on the experience and know-how of beef cattle specialists at Virginia Polytechnic Institute and State University (VPI). Plus, they sought help of Bruce Grover, local representative for American Cyanamid Company.

"We've had plenty of demonstration animals to work with," explains Advisor Reeves. "Cattle carried individually by the FFA members total 150 head or better—including both steers and supervised cow-calf programs. On top of that, several of our Young Farmers are major cattle feeders."

These bigger feeders have treated cattle for grubs and lice on a fairly large scale—which has caught the attention of other cattle feeders in the area. What's more, the top condition of the FFA steers each year in the county fat stock show and sale—the largest county show east of the Mississippi—has prompted several cattlemen taking in the show to ask the FFA members to treat their cattle.

Instructor Reeves also has actively participated in the demonstration program. He's in the bred heifer business—buys 70 to 75 commercial Angus heifers in the fall, winters and breeds them, then sells them the next fall to area cow men. All are fall-treated for lice and grubs.

Use Pour-On Method

Cattle are normally treated during October and into early November. The material used is American Cyanamid's Warbex Famphur pour-on systemic. It's effective against both lice and grubs and was applied to the backline at the rate of four ounces per mature animal.

The results of the lice and grub control campaign so far? Advisor Reeves and the FFA and Young Farmer members have shown county cattlemen the way to manage parasites on their cattle.

Most important, the idea of treating beef cattle for lice and grubs is rapidly becoming a standard management practice for cattlemen throughout the county. It's estimated that more than half are now treating for these external parasites—a hefty increase since the FFA and Young Farmer campaign was initiated three years ago. Prospects are promising for close to 100 percent participation this year or the next.

Scott Weller, a member of the Buffalo Gap's livestock judging team, treated his feeders, as did other members, to show local farmers that parasite control pays.

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Tips for Establishing Your Herd

By Richard George

THE adventures of breeding purebred cattle can last a lifetime without monotony. Nothing stirs the imagination and interest of those that cherish the enchantment of rural life, quite like a massive bull and his herd knee-deep in a lush pasture.

Where to Start

Intelligent planning is the basic ingredient for establishing a sound herd. Initially, one must choose a breed. As a suggestion, consider the predominate breed in your immediate locale. This selection can prove extremely valuable because a breed of density provides an ever-expanding market for surplus breeding stock. Popular breeds also sell better at nearby consignment sales—allowing you to combine a market outlet with promotion. Another immediate advantage of going with the majority breed is that new breeders can usually use bulls of established herds until herd size merits buying one.

Whichever breed you choose, remember the commercial man since he consumes the majority of registered bulls. Strive to breed not only showy animals, but practical, fast gainers to gain the support of these buyers.

Before any cattle are purchased, prospective breeders should consult with his vo-ag instructor, county agent, and experienced breeders. Breed publications contain a package of information and can help familiarize you with bloodlines and production records.

Each bloodline, within each breed, possesses different characteristics and certain ones are better accepted by the public. Attending sales will acquaint beginners with the acceptance of the numerous strains and sharpen their comprehension of pedigrees. Applying these fundamental steps should qualify one to wisely select his foundation females.

Searching Out

With the acceptable standards well in mind, the delightful task of searching out a new cow herd begins.

Generally, an economical method of putting together a herd of notoriety is to buy rebred cows, with heifer calves at side. This three-in-one unit sometimes costs less than young heifers. Occasionally renowned cows can be had at a slight premium above market price merely because they are nearing end of production.

Two important considerations must be made, though, when buying aged cows. First, convince yourself that they have sufficient teeth to remain thrifty and raise their calves. Second, don't invest so heavily in them that the calf at side and the one in-dam will fail to return the majority of your money.

Herd uniformity is a priceless trait once a new breeder starts showing and selling. The initial foundation purchases can set a standard of uniformity throughout a herd's duration.

Make every effort to buy all of your first females from one herd, with identical bloodlines behind every animal. The step sustains similarity throughout entire calf crops and simplifies future herd bull selection. It's far easier to breed out faults with a new herd bull when the complete cow herd possesses similar weaknesses.

Once you've located a group of females, make certain all are free from dwarfism! This problem has caused many established breeders financial chaos during the past decade. To insure himself against human error, the seller should be most eager to furnish—from his breed association—a dwarf-free certificate on each animal.

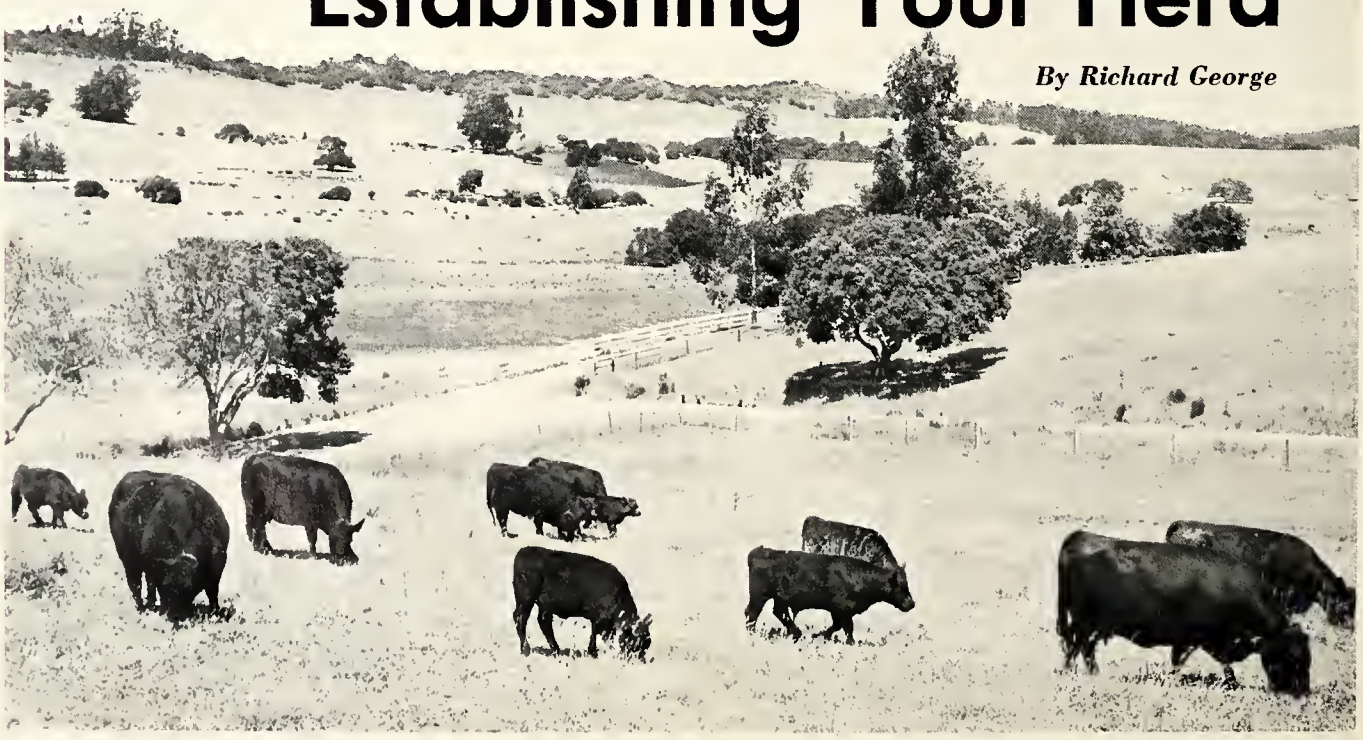
Assembling a herd free of the dwarf gene can't be over-emphasized. Genetic make-up in your foundation will govern its saleability for a lifetime. Any bull carrying the dwarf gene will suffer sales resistance from fellow breeders when they look for herd bulls. As a result, the valuation is restrained at the commercial level, regardless of how superior in quality the animal is.

New Herd

Cramming for a test resembles the study that is involved in understanding the many aspects of selecting registered cattle. Establishing your own herd is extremely challenging. But, once the lessons of selection are history and the beginnings of a new herd are home, you'll find every effort worthwhile.

An overwhelming pride, in dad and son alike, nearly pops the buttons off their shirts when that truck unloads at the home corral. This is the precise moment when a young man becomes a breeder of registered beef catle.

American Angus Photo



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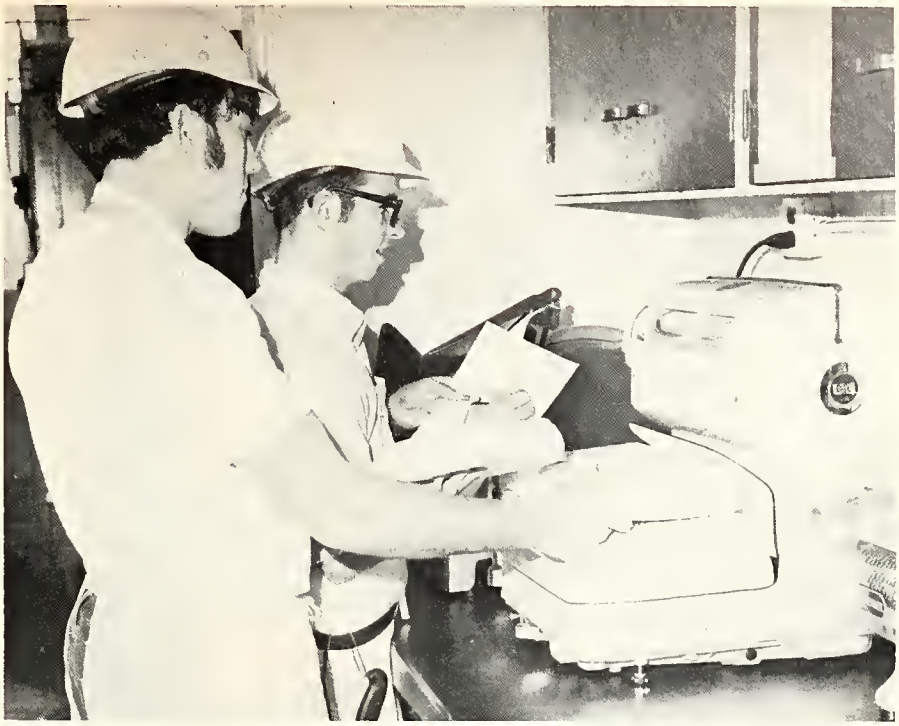
Meat Lab Meets the

The meat processing industry, a vital part of the livestock industry, needs qualified workers. Read how these young men are exploring the benefits of such a career. ***By Vearl Gish***

In the clean, modern, and complete facilities, Tracy vo-ag students study all phases of meat processing. Here they are removing cuts from the hind quarter.
Tracy Press Photos

Need



Each package of meat is recorded on a carcass cut-out sheet for the customers.

AGRICULTURE students of Tracy High School, California, have a head start in the field of meat processing upon graduation. And they learn and practice the art of meat cutting right in the vo-ag department.

Using a slaughtering trailer, built by students in the ag shop, classes go to farms to slaughter beef, sheep, and with a scalding tank mounted on it—swine. Most of the slaughtered animals belong to FFA members or their families. However, people in the community may have animals processed for 5 cents per pound as the schedule permits.

A freshly-dressed carcass is hung in the cooler at 35 degrees F. for aging. Later, students move the carcass to the processing room via a complete system of tracks and rollers. With guidance from Instructor Gordon Gibbs the students cut, wrap, and weigh the meat to the owner's specifications. The meat is then quick frozen at minus 20 degrees F.

The Tracy lab facilities include meat saws, grinders, scales, a brine pump for seasoning hams and bacons, and a sausage stuffer. A meat block, wrapping and boning tables, an 11-foot ceiling-to-floor cooler room, a small quick freezer, and a smoke house complete the setup.

The meat processing class is open to all students who have completed one year of agriculture. Students must demonstrate their ability to work safely around and with power equipment.

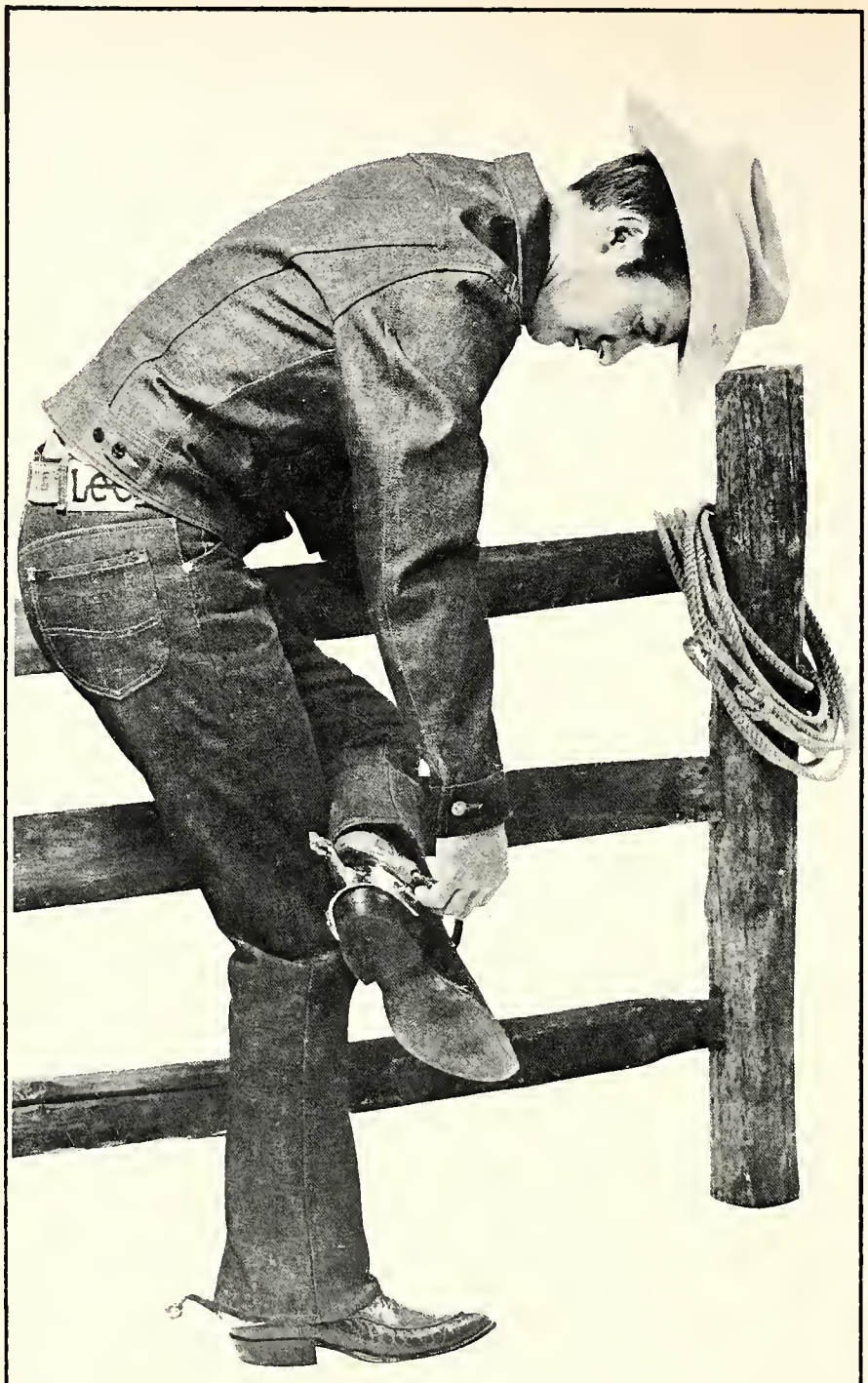
The special tables allow the students to learn how to bone meat for hamburger.

Students attend meat processing two periods a day, five days a week. After a full year they have been exposed to all phases of the meat industry, including career opportunities. Students gain the technical knowledge to be valuable staff members at any meat market. They also enhance the possibility of getting their first job and find the union apprenticeship program easier.

Upon interviewing former students it is apparent that lab work along with classroom study helps prepare them for employment. One graduate, who is working in a large retail chain, was on the job only two days before the manager permitted him to run the meat section alone for a two-hour shift.

Some students use their slaughtering knowledge to set up facilities at home. Tom Pombo, who comes from a large family, has developed an extremely complete processing facility in a once unused building on the family farm.

Advisor Gibbs has found that one student in five that takes the meats class cannot adapt to this occupation. However, he still feels that the service of providing early experience in probing careers benefits this student, too. These students are then free to continue experiences in other areas. In addition to the students and FFA advisors, the school's administrators and other vocational supervisors consider the vo-ag meats lab an outstanding example of career training in action.



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Buildings on the Redtop Dairy Farm in the background have red roofs and white sides. Myron is cultivating his milo.

IMPROVEMENTS on the Redtop Dairy Farm at Newton, Kansas, have made the 150-head operation highly efficient. However, operators Myron, a Star Farmer of Kansas, and Ed Schmidt, his father, only make im-

Myron constructed this fence for feeding calves and remodeled and sided the galvanized calf barn just behind him.

The Schmidts own two Quarter Horses which they use for pleasure riding and for getting the cows for milking.

Make Way for Improvements

That's the byword for progress on Myron Schmidt's farm. ***By Ron Miller***

provements when they can reduce the cost per unit of production.

Since Myron bought into the farm business in 1964 as a junior vo-ag student, the full partners have made considerable changes in their dairy operation. By building a combined 72-head free stall and hay barn, they made scraping manure from the barn and cement lot into their liquid manure pit a 45-minute job. At the same time Myron is scraping, their automatic silo unloader is feeding the cows. Cleaning the newly constructed 9-foot deep by 24-foot diameter liquid manure tank takes them about five or six hours only once a month.

To increase their milk capacity, thus allowing them to enlarge their herd, the Schmidts installed a 600-gallon tank in place of the old 450-gallon unit. With new milking units and a 6-cow walk through milk barn they can now milk faster. Myron, honored for proficiency in farm mechanics state and nationally, also welded new cow feed racks and calf pens from ¾-inch pipe.

In addition, they own a complete line of modern dry land tillage and harvesting machinery.

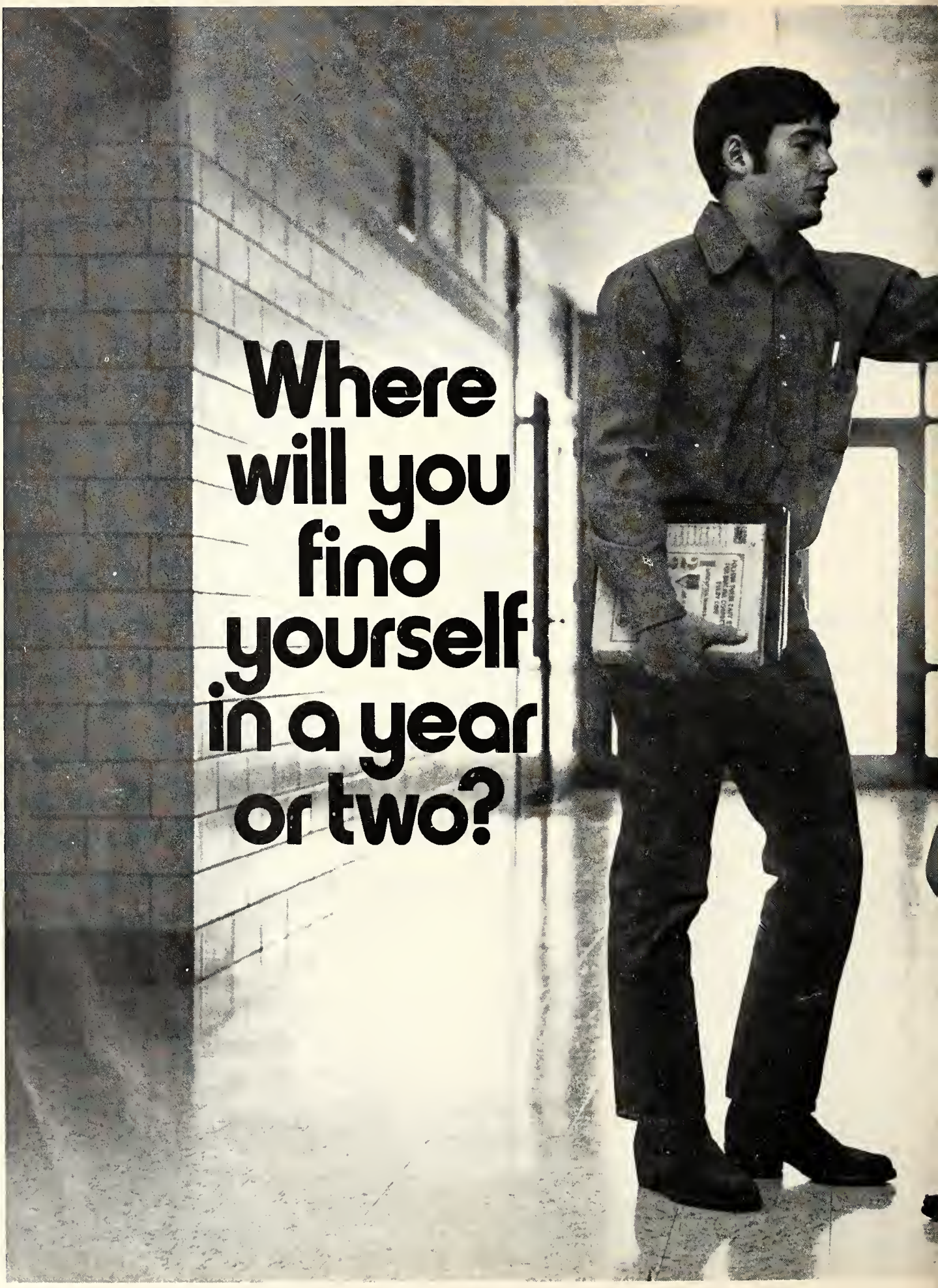
To feed the cattle, Myron and his father crop 140 acres which they own and another 322 acres, rented on a 2/3-1/3 basis. On 270 acres of crop land they raise wheat, milo, triticale, and temporary pasture of wheat and sudan. They also plant about 60 acres of brome and native grass pasture.

The Schmidts generally maintain a herd of 75 cows with approximately 56 milking year-round. They usually keep 35 bred and open heifers and 35 calves for replacements. Their Ayrshire herd now averages over 500 pounds of butterfat and approximately 13,500 pounds of milk per cow. One of their registered cows even topped her class at the Kansas State Fair.

As a member of the Goessel FFA, Myron competed on the chapter's gold emblem dairy judging team coached by Advisor John Morgan. Moreover, the progressive dairy farmer, a member of the Ayrshire Association, prepared dairy cattle for FFA state judging contests. Supervising the state farm mechanics contest and helping with farm mechanics displays at county and state fairs were some of Myron's other activities in FFA.

The Kansas Young Farmer Association member has already completed a two-year course in farm mechanics at Kansas State University. Looking ahead Myron is planning on performing as artificial insemination technician for his dairy herd following the completion of training at college.

Myron and his wife Pat have modernized and redecorated their home, a 100-year-old sod house, in the original flavor.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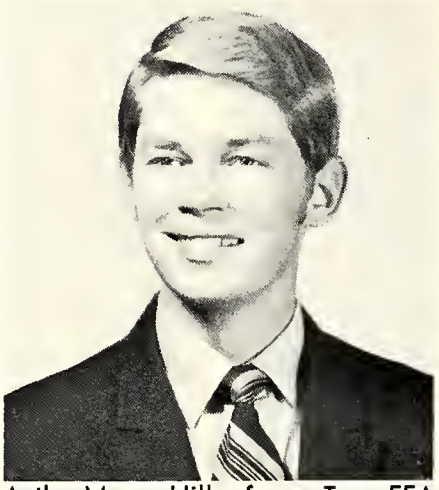
But who is preparing leaders for people-oriented activities of these professions? Let's take a closer look at the situation.

Today, there is a need for leaders who can work with people—organizers, salesmen, trainers, instructors, public relations men, public speakers, administrators—leaders who can get along with their fellow man and influence his actions and *communicate with him*. There is one field—agricultural education—that stands head and shoulders above others in offering students "people training."

Agricultural education has a head start on other college majors because it draws experienced leaders from high school students who have had valuable training in the FFA. Agricultural education majors who were in the FFA have attained high levels of public speaking efficiency, people training, and leadership ability. These students enter college with a wealth of "people training"—practical experience in public speaking, presenting demonstrations, participating in leadership contests, presiding at banquets and meetings, using parliamentary procedure, and more.

But most important of all, the agricultural education student has the experience of student teaching in a department of vocational agriculture. Here he goes on the firing line and works with groups of people. He gains actual experience in developing and executing a plan of action which influences the way people think and act. Agricultural education majors will tell you that this training is the best experience available for developing leadership abilities.

Because of their ability to work with people, agricultural education majors are not only qualified to work as teachers of vocational agriculture. They also make good extension agents. salesmen, managers, organizers, and public relations men. Most of them become civic and community leaders outside of their employment.



Author Marcus Hill, a former Texas FFA president, is majoring in agriculture education at Texas A&M University.

By having the combination of training in agriculture, education, and leadership the agricultural education major has probably the broadest area of job opportunities available to any college graduate. Some examples of the employment of agricultural education graduates are in industries that manufacture and distribute fertilizer, farm machinery, chemicals, and many other agriculturally related products. Many are employed by utility companies. You will also find agricultural education majors working as chamber of commerce presidents, insurance executives, practicing attorneys, and as politicians.

So, for the young man with ambition, ability to work with people, desire and enthusiasm for the people around him, agricultural education can unlock the door to a dynamic, versatile, and ever-expanding career. *(By Marcus Hill)*

More Career Information

Meat Science: (1) *Opportunities For You* (2) *Career Opportunities in the Meat Packing Industry* (3) *8 Ways to Learn.* Free from Department of Membership and Personnel Relations, American Meat Institute, 59 East Van Buren Street, Chicago, Illinois 60605.

Agricultural Colleges: *College Admission Council.* Free from College Admission Council, 3800 Summit, Kansas City, Missouri 64111.

Agricultural Chemicals: (1) *Career Opportunities in the Pesticides Manufacturing Industry of Agribusiness* (2) *Sources of Career Information in Scientific Fields.* Direct inquiries for copies to Mr. Dick Smith, Staff Assistant to the Director of Public Relations, National Agricultural Chemicals Association, The Madison Building, 1155 Fifteenth Street, N.W., Washington, D.C. 20005.

Building Flexibility

The alternative to some type of career planning is "disorganization and chaos" says Dr. Franklin E. Eldridge, associate dean of resident instruction for the College of Agriculture at the University of Nebraska. He sights rapid changes and unforeseen developments as the reasons which make a precise blueprint for a life career impossible.

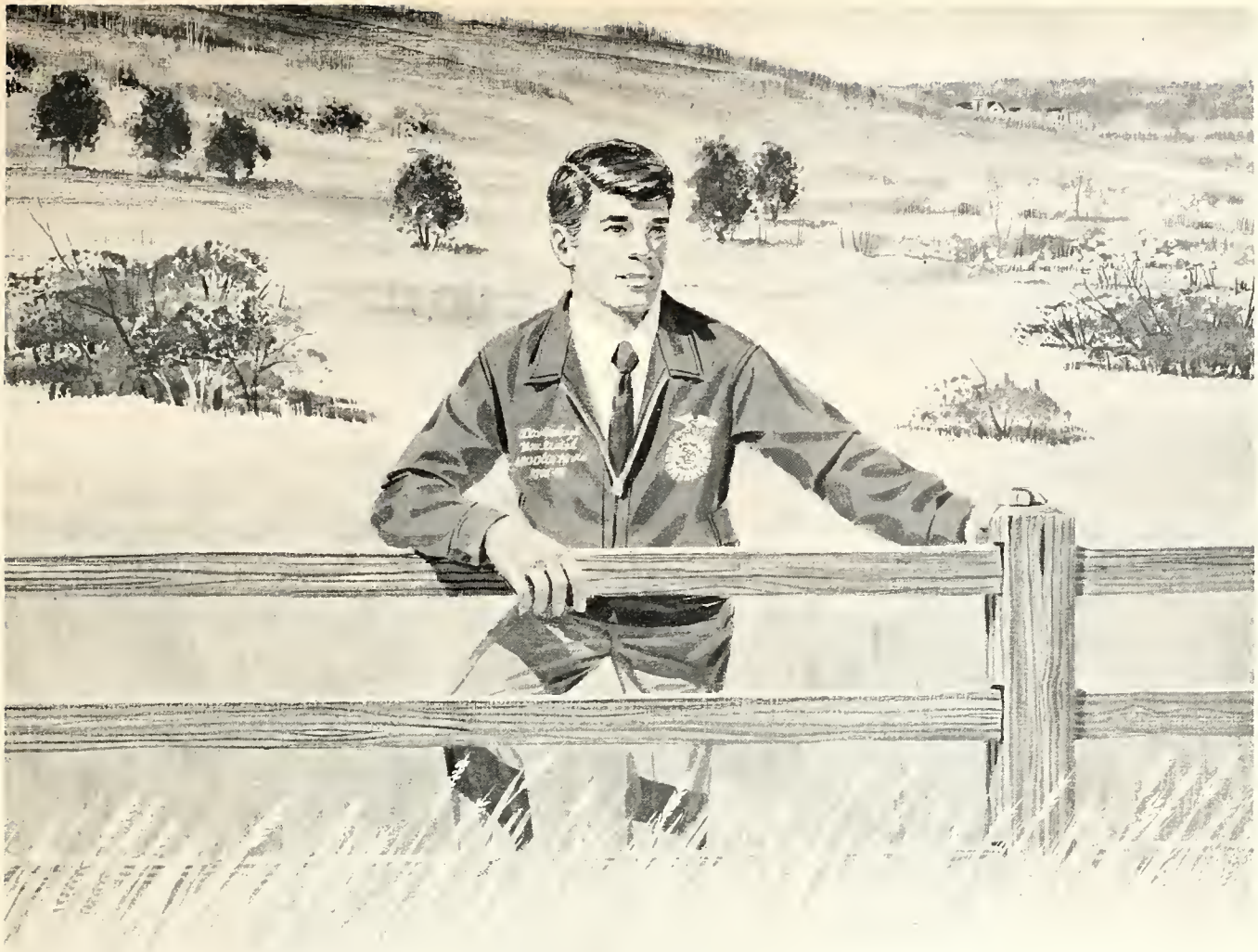
Dr. Eldridge urges students to develop a set of general guide lines or goals in choosing a vocation and the training or education needed to qualify for it. "But much flexibility must be built into such a plan," he says, "to allow for a possible change in direction forced by circumstances."

Conceding that many opportunities in agriculture and agribusiness today depend on a college education or at least two years of academic or vocational technical training, Dr. Eldridge warns of the hazard of establishing "going to college" as a goal in itself. In like manner, he suggests "taking a halo from a degree" in terms of making it a personal goal. "Many youths today, conditioned from elementary school age to go to college look at a degree as a goal without coming to grips with the real reason for attending," he says.

The Nebraska University administrator outlines a case for individuality of the student in spite of increasing enrollment and the complexities of a large comprehensive university.

He counsels college bound students to consider course work in three categories.

- Courses which provide a broad base for later specializiation and are beneficial whatever the final major turns out to be.
- Courses which relate directly to the area of specialization such as agriculture and law.
- Courses which fit an individual's unique interests, aptitudes, and desires, such as music, athletics, and art for non-majors in these fields.



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Beyond the Horizon

Agricultural prospects in 1971—crops, uncertain and gains in livestock.

HAVE you ever wondered what's beyond the horizon? You do just that when you look at the agricultural situation as you make plans for the year ahead.

To help you visualize what to expect at market time, here is a report of what USDA representatives say will happen in agriculture. These predictions were revealed at the 1971 Agricultural Outlook Conference in Washington, D.C.

Economics

Income. Farmers can look forward to strengthening farm prices and incomes this year from currently depressed levels. Gross farm income will increase by around a billion dollars over last year's record $56.2 billion. Net income for farm operators is expected to improve later in 1971, however, realized net income for 1971 will likely total slightly below last year's.

Expenses. Outlays for feed purchases and overhead costs will run slightly larger. Interest rates will recede, though borrowing may increase. The farm wage bill may also increase as rising wage rates more than offset the decline in hired workers. The total increase in farm production expenses will probably exceed the advance in gross income, but will not match the 4½ percent increase in 1970.

Livestock

Beef. A moderate increase in beef production of around 2 percent is predicted for 1971. Fed cattle marketings early in the year will be close to last year's but will run slightly larger in the second half of 1971 than a year earlier. Cow slaughter will run under or near 1970 levels.

Prices for fed cattle may slip but should remain firm in the spring. The seasonal rise in cow prices will run slightly smaller this year. Thus, cattle prices in 1971 will not be much different than in 1970.

Hogs. Hog slaughter will continue much larger than a year ago through spring. A reduction in late spring farrowings, however, will cut hog slaughter next fall below year earlier levels. Farrowings are expected to be down from last year for the rest of 1971.

In total, pork production will be up 8 percent or more and hog prices will average moderately under 1970 prices.

Sheep and Lambs. The 1971 lamb crop is expected to be reduced. At the same time, sheep and lamb slaughter is expected to run smaller than a year ago. Prices are expected to remain low as consumption of lamb and mutton will likely decline further this year.

Poultry and Eggs. Production of eggs and turkeys should total above year earlier levels, but broiler output should remain about the same. Prices for broilers, turkeys, and eggs will continue below 1970 levels through mid-year. In the last half of 1971, broiler and egg prices will strengthen and average higher while turkey prices will remain lower.

Dairy. A limited rise in milk production from the 117.4 billion pounds of milk in 1970 seems likely. Furthermore, a decline in milk cow numbers will likely continue but at a slower rate.

A small price gain will likely hold manufacturing grade milk prices close to support levels during most of 1971. Prices for milk used in bottling (Class I) will again depend on the policies established in federal order markets. Gross dairy income could exceed $6.6 billion.

Crops

Cotton. The cotton outlook this year is highlighted by prospects for increased exports despite a smaller supply and higher prices. Producers intend to plant about 11.8 million acres, about the same as in 1970. The price support payment, at 15 cents per pound, is down from 16.8 cents in 1970. Total acreage for payment, however, is up slightly for the 1971 crop.

Feed grains. In 1971, farmers plan to increase feed grain plantings by nearly 7 million acres—corn acreage up 4 million and sorghum up 3 million acres. The outlook for corn production is cloudy, but a favorable growing season for other feed grains could increase production around 10 percent above last year's short crop. Corn prices are expected to continue relatively high and sorghum, barley, and oat prices low in contrast.

Rice. The 1971 national acreage allotment is the same as the 1.8 million acre allotment of 1970, but a somewhat larger crop is expected. Currently the price support loan rate for this year's crop will be $4.93 per hundred weight.

Tobacco. The outlook for tobacco is mixed. Consumption of tobacco products is still at a high level, although the decline in leaf tobacco use continues. On the brighter side, price supports will go up 4.2 percent and smaller supplies are expected to result in higher prices.

Wheat. Winter wheat yields are expected to be about 7 percent less than the 1970 crop. Spring wheat planting, on the other hand, will far exceed last year's plantings of 11 million acres. The loan level will be the national average of $1.25 per bushel.

Fruits. Citrus fruit production is forecasted to be well above last season's, despite freezes. Prices have been above last year's levels and may rise slightly. Production of the deciduous fruits is expected to increase, generally resulting in somewhat lower prices.

Vegetables and Potatoes. An estimated lower fresh market crop and low supplies of canned vegetables will likely cause processors to plan for larger packs in 1971. Potato supplies are 8 percent above last year's, keeping prices well below normal. Meanwhile, sweet potato holdings are down and prices are expected to advance.

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"We Get Best Rat Control On Our Farm By Using d-CON Because....."
Along with your entry, send in a d-CON® Ready Mixed Box Top and We'll Send You 50¢.

If you're a winner in d-CON's "Rat Control" Contest, you'll receive a fine, quality-bred, *registered* heifer—to be selected from an outstanding breeder. Your heifer will be of recognized blood lines... suitable for VO-AG Project Farming... excellent show potential... foundation stock for your herd!

Read the easy rules and enter the contest today. Just a few words may make you the proud owner of your own registered heifer. So get going right now!

FACTS ABOUT d-CON TO HELP YOU WIN

- d-CON is the way to rid your farm of rats *completely*.
- d-CON is one rat killer that works and keeps on working—because it contains no violent poisons—never makes rats bait shy!
- Rats just can't resist d-CON's EXCLUSIVE LX 3-2-1 formula! d-CON used as directed, is safe to use around children, pets, poultry and livestock!
- Every package of d-CON comes with 4 ready to use, bait filled trays, specially made for maximum bait acceptance.

RULES

1. To enter d-CON's big "Rat Control" contest, just complete the following sentence in 40 words or less, "We Get Best Rat Control On Our Farm By Using d-CON Because..."
2. Use coupon or write your entry on separate paper and mail entry with your name and address plus one (1) box top from any package of d-CON Ready Mixed, to d-CON, Dept. H, 90 Park Avenue, New York, N.Y. 10016. Send as many entries as you wish. One box top to an entry.
3. Entries must be postmarked by June 15, 1971.
4. Decisions of judges will be based on originality and aptness of thought and expression. The judges' decisions will be final. Winners will be notified not later than August 1, 1971.
5. Anyone living in the United States, its territories and possessions and Canada may enter except employees of The d-CON Company, Inc. and its advertising agencies and the families of such employees. Each entry must be the original work of the contestant submitting it and be submitted in the contestant's own name.
6. All entries become the property of The d-CON Company, Inc. to use as it sees fit and none will be acknowledged or returned. Winners will be notified by mail. Full list of winners will be sent approximately six weeks after close of contest to anyone enclosing a self-addressed, stamped envelope with entry. This contest is void in all areas where it is taxed, prohibited or otherwise restricted.

The d-CON Company, Inc. Dept. H
90 Park Ave., New York, N.Y. 10016

Gentlemen:

We Get Best Rat Control On Our Farm By Using d-CON Because_____

_____

_____

_____

_____

NAME_____ AGE_____

ADDRESS_____

CITY_____ ZONE_____ STATE_____

Remember To Enclose Box Top From Package Of d-CON Ready Mixed (1 lb., 3 lb., or 5 lb. Size) and we'll send you 50¢.

THE CHAPTER SCOOP

news, notes, and nonsense from everywhere

by Jack Bitzer

The *Letchworth* FFA in New York sold $5,031 worth of Christmas cards, wrapping paper, candles, and gifts.

N-N-N

FFA chapter's apple butter is a regular feature on the *Chestnut Ridge,* Pennsylvania, school menu.

N-N-N

West Plains, Missouri, Chapter had their barnwarmin' actually in a barn.

N-N-N

Glendale, Arizona, FFA donated Christmas trees to families in their area.

N-N-N

Be sure your chapter thanks newspaper, radio, and television folks for their support during FFA WEEK.

N-N-N

Proceeds of a father-son basketball game at *Humansville,* Missouri, FFA will go to the heart fund.

N-N-N

Consider buying a FFA flag to fly with the United States flag on your school flagpole.

N-N-N

A snowmobile party and faculty breakfast were two recent activities of *Buffalo Center,* Iowa, Chapter.

N-N-N

Hoxie, Arkansas, FFA sponsored an intramural basketball tournament for all school clubs. Gave trophies to winners. Charged 10 cents admission. Made money and gained some publicity for FFA.

N-N-N

Shiprock, New Mexico, FFA raises money by showing movies at school.

N-N-N

The BOAC project for *Hastings,* Michigan, FFA is building shelters at the community ball park.

N-N-N

Guthrie Center, Iowa, FFA showed kiddy movies in the gym during the Christmas holidays.

N-N-N

Waterville-Elysian, Minnesota, FFA is collecting newspapers and glass for their part of the BOAC program.

N-N-N

Russellville, Alabama, FFA recently laid 2400 square yards of Bermuda sod at a new elementary school.

Officers and committee chairmen of the *Bladenboro,* North Carolina, FFA go to the beach to plan their program. Makes a big job enjoyable.

N-N-N

Sanborn, Minnesota, FFA joins in the community's Watermelon Days Celebration. Operates a food stand.

N-N-N

Always include a return address on correspondence to magazines, business firms—in fact any letters you send.

N-N-N

"Geared for Community Service" was the slogan for *Talawanda,* Oxford, Ohio, Chapter state fair booth. Consisted of three interlocking gears—FFA, community, and nation.

N-N-N

Judy Parsons was elected sweetheart of the *Grant,* Oklahoma, FFA.

N-N-N

Montgomery County, Kentucky, FFA members took on the faculty in a basketball game during FFA WEEK.

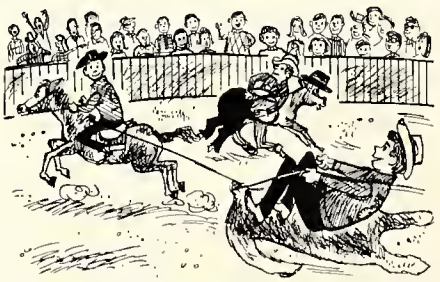
N-N-N

Rock Valley, Iowa, FFA cooperated in sponsoring a community meeting on drug abuse.

N-N-N

Kimball, Nebraska, FFA bought a steer to feed out for a raffle at the county fair this summer.

N-N-N



Miles City, Montana, FFA rodeo attracted large crowds with events like "Montana Surfing" and "calf dressing."

N-N-N

Canby, Oregon, FFA copped first in the District Parliamentary Procedures Contest for the sixth year in a row.

N-N-N

Winners of the *Saline,* Louisiana, FFA scholarship awards for the year are **Larry Price, Tony Hough, Lonnie Cheatwood,** and **Bo Weaver.**

N-N-N

Culbertson, Montana, Chapter unloaded a carload of fertilizer for the local elevator for $50.00.

N-N-N

The *Grady,* New Mexico, FFA Livestock Judging Team won team honors at National Western Livestock Show.

Chapter Farmers of *Bloomington,* California, FFA defeated the Greenhands 29-10 in "hot" basketball contest after the Greenhand initiation.

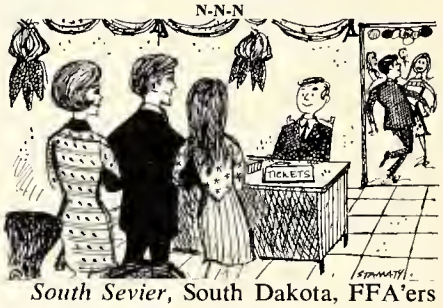
N-N-N

Sal Ortiz reports *Dimmitt,* Texas, had annual Donkey Basketball Game. A popular activity for chapters.

N-N-N

El Dorado FFA in California had their annual snow trip. Took two snowmobiles and sack lunches.

N-N-N



South Sevier, South Dakota, FFA'ers paid $1.50 each to attend the chapter's Harvest Ball. Girls were free!

N-N-N

David Hathcoat, Reporter of *Valley Springs,* Arkansas, reports the chapter supplied Christmas trees and stands for all homerooms of schools.

N-N-N

Meigs County, Tennessee, Chapter gave a parliamentary procedure demonstration at a special student assembly.

N-N-N

Ubly, Michigan, FFA collected old Christmas trees and put them on the Village Farm. Provided protection and feed for wildlife. Stopped pollution.

N-N-N

FFA member of *Wheatland,* Wyoming, assisted with purebred bull sale.

N-N-N

The secretary of *Harrisburg,* South Dakota, FFA wrote a letter to the Community Club thanking them for sending two members to National Convention.

N-N-N

Storrs Regional FFA in Connecticut will make and sell corsages for Easter.

N-N-N

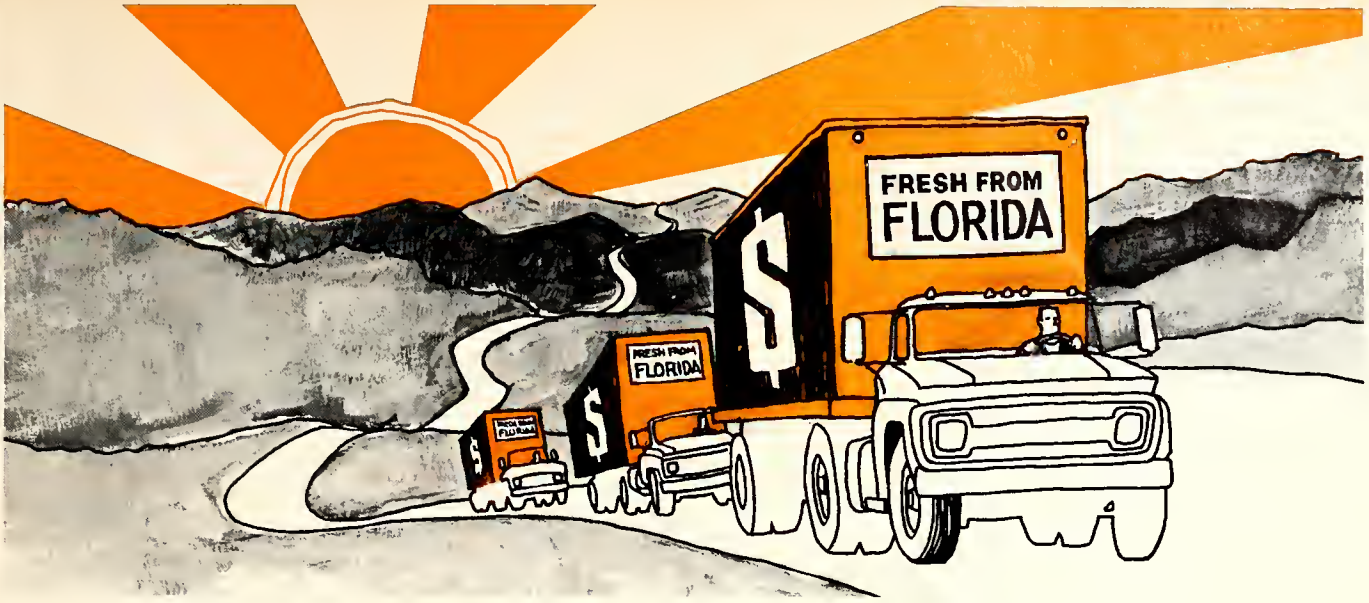
Biggest money making project of *Gaithersburg,* Maryland, FFA is Christmas tree sales. Sell at a shopping center.

N-N-N

Tony Collier, *Pelham* FFA, and **Paul Jones,** *Brooks County* FFA, in Georgia, were awarded checks for roadside beautification by the *Atlanta Journal.*

N-N-N

Don't get spring fever and forget to shovel it to us. Keep the basket full of news, notes, and nonsense about the happenings of your chapters.



There's profit by the truckload for your FFA Chapter fund raising...

selling sunny Citrus Fruits from Florida.

Having your FFA Chapter sell Citrus from Florida is the newest, most profitable idea to come along in a long while. What is so great, your group gains valuable selling and handling experience with a true agricultural product rather than some manufactured gimmick.

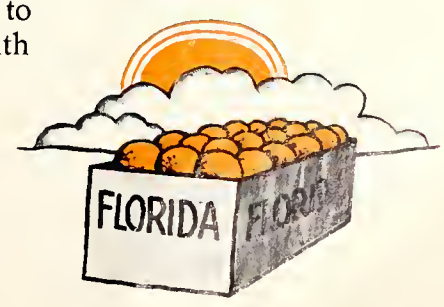
Selling Citrus from Florida is a proven moneymaker. Two years ago the program was pioneered by FFA counselors in Fairfield County, Ohio. Profit from the sales of fresh citrus averaged $1,800 per truckload and in their first year the Fairfield County area sold 13 truckloads.

This year Fairfield County was back for more and so were a lot of others. Parsons, West Virginia sold 800 cartons of citrus . . . 27 chapters of Central Pennsylvania sold 6,000 cartons . . . the South Dakota FFA reported sales of 6,000 cartons . . . and a Newark, Ohio chapter sold 850 cartons or one full truckload the first time out.

Special credit and shipping arrangements are extended to FFA groups by Florida shippers. This means you can have your sale and collect the money before you have to pay for the fruit.

To learn more about this newest idea in fund raising and to get case histories on how well other FFA Chapters have done selling fresh Florida Citrus, write the Promotion Manager of the Department of Citrus, Lakeland, Florida.

He will send you a presentation kit you can use to explain the program to your group and tell you how you can get in touch with a fresh citrus shipper to supply you with the fruit you need.



FLORIDA DEPARTMENT OF CITRUS
P. O. BOX 148, LAKELAND, FLORIDA 33802

Copyright, State of Florida, Department of Citrus, 1971

Fast shutter speeds stop moving objects.

Hunting with a Camera

It's a magnificent way to bring nature home with you.

By Russell Tinsley

ONE sultry, hot morning last summer I went deer hunting. Soon after sunup a nice buck headed toward where I was hidden in a blind I'd improvised from tree limbs and brush. Every time I look at the trophy hanging on my den wall I remember that magnificent sight: the deer, his ears cupped forward alertly, catfooting down the trail, sunlight glimmering on his velveted antlers, shadows making weird patterns on his light tan coat.

This hunt was perfectly legal in that I "shot" the deer with a 35mm camera fitted with a telephoto lens. My "trophy" is a large, framed picture.

I've been on countless such hunts. Photographing wild animals is a fascinating hobby unrestricted by seasons. You can hunt in state parks, national parks, within city limits, and places where firearms and legalized hunting are prohibited. When you "shoot" an animal you need not stop to clean your kill or quit hunting because you've filled your legal quota. You can keep going until you locate another likely subject in the viewfinder of your camera.

And there is one obvious bonus of the hobby which generally is overlooked: wildlife photography makes a person a better hunter. To get quality photos the cameraman must be close to his subject, the closer the better. This means he must master all the tricks of blind hunting and stalking. He must study his quarry to learn its habits and weaknesses. All this knowledge proves invaluable later when he picks up rifle or bow and arrow and takes advantage of the legal game seasons.

There are a couple myths about wildlife photography which need debunking before we continue. (1) The sport is not unreasonably expensive. A camera and adequate lens can be had for about $125 to $150, or perhaps even cheaper if you'll settle for second-hand equipment. Check the want ads of your local newspaper for camera bargains. (2) Photography is not complicated. The basic fundamentals really are quite simple, even if using a telephoto lens. To begin you need the proper equipment.

Let's examine what is available.

Camera. I wouldn't consider anything but a 35mm Single Lens Reflex. You have more flexibility with this type camera and the price tag isn't too high.

A series of mirrors within the camera body permits you to focus and view through the lens, which means you are seeing the actual picture you are taking. No auxiliary focusing or viewing systems are needed, thus keeping the camera compact and reducing the price tag.

Two features the wildlife-photography camera must have are an interchangeable lense system and a shutter speed of at least five hundredth of a second. You can take normal posed photos with the regular lens (usually 50mm) which comes as standard equipment with the camera, then snap or screw in the telephoto for wildlife picture taking. The fast shutter speed is mandatory to avoid blurry photos with long focal-length telephoto lenses.

Cameras like Praktica, Kowa, and Yashica, in the economy models, can be had for about $100 each, and all will do an adequate job.

Lenses. A 300mm telephoto is what I recommend. This lens can be handheld and will magnify the subject about six times. A 50mm lens is considered normal, or the same picture your eye would see. With lenses of longer focal length (400mm, 500mm, 640mm) you get correspondingly more magnification, but you also must use a tripod for keeping the camera absolutely still while tripping the shutter. Telephotos not only magnify the subject, they also magnify any movement of the camera making the resulting photograph blurry.

Thanks to modern ultra-fast films, telephotos are available for wildlife photography at a very nominal price. A 300mm pre-set f/6.3 lens, for example, costs about $30, mainly because the diaphragm is of the preset variety.

The diaphragm in the lens opens or closes to control the light which ultimately strikes the film and this determines the f/stop. Numbers such as f/8, f/11, and f/16 are stamped outside the lens. The amount of light is regulated by turning an indicator from one number to another. The intervals between these numbers are called full stops because f/8 permits twice as much light to enter as f/11, which is twice as much as f/16.

Shutter speeds also are marked at full stops. That is, 1/500 (five hundredth of a second) is twice as fast as 1/250, which is twice as fast as 1/125. Thus by using both the f/stop and shutter speed it is easy to regulate exposure.

A quality 300mm pre-set lens can be manufactured for a nominal price, then, because the diaphragm is stationary. That is, if you select an f/8 opening, you must actually focus and view through this small opening, unless you want to take the time to open the lens, focus, and then close down to f/8 before squeezing the shutter. On an automatic lens, which is much more expensive, the diaphragm comes completely open for focusing. Then when the shutter is tripped, it automatically closes down to the correct f/stop before the light is permitted to enter.

A telephoto lens got this cottontail.

Bracing your camera reduces movement.

Another reason for the low price of the example lens is that it opens only to f/6.3, which is sufficient for outdoor photography. The lower the f/stop number (such as f/5.6, f/4, or f/2), the wider the diaphragm opening and the more light which can hit the film. Such large f/stops (in the f/1.2 to f/3.5 range) are designed for a weak light source and used for taking photos indoors without a flash or just at daybreak or at dusk. By eliminating the lower f/stops on the 300mm telephoto, the diameter of the lenses is smaller and naturally cheaper since the ground pieces of glass are what basically determine the price of a lens.

With some practice the 300mm preset f/6.3 or f/5.6 lens is more than adequate for photographing wild animals in their natural habitat. At f/8 enough light enters the camera to permit critical focusing with the eye, and at a 1/500 or 1/1000 shutter speed, the lens can be hand-held—although it is best to brace it against something like a tree trunk if such a stationary object is handy. This reduces the chance of camera-movement error.

Film. Generally it is good to use only black-and-white film until you become proficient and confident enough to graduate to color. There is a lot of latitude for miscalculation with black-and-white film. You might be off an f/stop or two, permitting too much or too little light to enter the camera, yet still get a negative which is adequate for making a good print. I personally use nothing but Tri-X film which gives sharp enlarged prints without much noticeable grain. It is very fast (ASA reading of 400) and readily available at most outlets.

Just follow the printed instruction sheet that comes packaged with the film to determine exposure. For Tri-X the recommended exposure for bright sunlight is f/22 at 1/250 shutter speed. Thus if you shoot at 1/500, open the lens diaphragm one full stop, or f/16.

Always remember that when you double the shutter speed, you always open the lens one full f/stop to keep the same light balance, or vice-versa. One full f/stop lets in twice as much light or half as much, depending on which way you go. On any sunlight or hazy-bright-overcast day if you set a basic exposure of f/8 at 1/500, you'll always get a printable negative without worrying about adjustments.

After you've mastered black-and-white film, you can buy a basic booklet on photography and learn how to determine the correct exposures for color film. With some practice you'll be surprised how easy the transition will be.

The key is *practice*. When you first obtain your new camera take random shots of domestic livestock, household pets, or just people. Study the resulting photos and try to determine your mistakes and make the necessary corrections. The idea is to become intimately familiar with your equipment. Each individual step such as focusing, centering the subject in the viewfinder, and squeezing the shutter release should be natural reactions and photo proficiency, like anything else, comes with practice.

Otherwise, just get into the woods often and look for subjects with the same techniques used in hunting. Camouflage clothing is a definite asset. Camouflage-colored tape, the kind designed for hunting bows, can be used to cover shiny parts of a camera or lens. This eliminates telltale glare and does no damage whatsoever.

The most important requisite, however, is to always have your camera handy. You never know when opportunity might beckon. Shoot as many poses as you possibly can. Film is cheap, and by taking five shots you increase your chances fivefold of getting one good photograph—the kind you like to get enlarged, hang on the wall, and show your friends.

Leaves made a nice frame for this fawn.

New Arbogast Mud-Bug

Nothing fishy about the way it catches fish.

by Dick Kotis
President
Fred Arbogast Company, Inc.

When my reputation as a fishing "expert" is on the line, our new Mud-Bug® goes on my line. And it hasn't let me down yet. Digs deep, where the big ones hang out. I fish the Mud-Bug long, hard and very fast through deep holes, around obstructions and along steep dropoffs. Some of my friends like to troll it fast. Because the Mud-Bug isn't a line twister, it will not pop to the surface. Big metal lip helps trip it over snags. Comes in casting and spinning weights. Suggested retail $1.95.

New 1971 Arbogast Catalog and Fishing Manual "Secrets of the Pros" by Dick Kotis. Send 25¢; include your zip code.

FRED ARBOGAST COMPANY, INC.
804 West North Street
Akron, Ohio 44303

Demonstrating Your Ability

Preparing demonstrations, like writing speeches, and presenting them will improve your communication skills.

By Richard Welton

YOU are familiar with success stories which have resulted from participation in a public speaking contest, from a word of encouragement from a State Farmer, or from a trip to the National FFA Convention.

Similarly, agricultural demonstrations can well provide that "spark" to a Future Farmer for attaining higher goals. Demonstrating can help you develop leadership, be an educational opportunity for you, and serve as a public relations tool for your chapter.

Members who are involved in demonstrations can get practical application of English grammar and composition from writing and organizing a demonstration. Public speaking experience and learning to think on your feet are other benefits.

Topics for a demonstration should deal with an area of current importance. Consideration should be given to special needs of the FFA chapter, school, or community. It is also essential to select a topic which is narrow enough in scope to permit thorough treatment.

After choosing a topic, organize the subject material. The library in your vocational agriculture classroom is the most immediate source of material. Home libraries, school libraries, and county extension offices should also be consulted for information.

The principles of speech writing also apply to demonstrations—introduction, body, and conclusion are the essential parts. The secret of an effective presentation is to combine the show and tell aspects in an interesting manner and to supplement the right amount of action. The title should briefly describe the demonstration with originality and ingenuity.

Careful planning, coupled with an early start with organization, will enable you to schedule a presentation. For example, selecting a topic before Christmas vacation will allow time for you to prepare your demonstration before returning to school. Then you can appropriately, schedule the first presentation during FFA WEEK.

The number of demonstration team members may vary from two to five. Too many people make the presentation too busy and may be distracting. Selection should be based on team member's interest and how much each member will benefit from the experience. If there are four members, each one should speak at least twice, but not more than four times in a 15-minute demonstration.

Visual aids giving the key points of the demonstration should be neat and attractive. If the budget allows, get a professional to prepare charts. The most effective colors include red, blue, green, and black on a gray or white background. Whenever possible, actual models should be employed.

Charts should be concise and lettering large enough to be seen from a distance of 50 feet. A flannel board is one good method of presenting a story. Colored slides almost always complement a presentation.

The introduction is made quickly to prepare the audience for listening and seeing. One team member introduces himself, other team members, and the topic to be presented. There should be a logical reason for shifting from one member to the other. The importance of practice cannot be over emphasized. Timing and team work will add to the overall effectiveness of the presentation. After the conclusion, members have an additional opportunity for leadership training by responding to questions from the audience.

The benefits from agricultural demonstrations to the individual FFA members and the chapter are far reaching. Opportunities exist for presentations beyond the community. County, state and national organizations are always searching for new ideas to include in their programs and meetings.

Since a real tractor was out of the question, the model served as the visual aid. It neatly held the signs, too.

Professional sign painters can add that extra touch to your demonstration visuals and make you look like a pro.

Work horse.

Real horses take lots of oats.

This Arctic Cat Bike takes just a little gas.

And just think of all the places it can take you.

Because it's built to be operated off the road.

So now you can ride to those far-off corners of your spread. Easily.

Cushioned by shock-absorbed suspension with the added ease of automatic transmission.

The four new Arctic Cat Bike models each weigh less than 100 pounds.

But they'll handle the heaviest load.

Tough.

But quiet.

This workhorse comes pretty reasonable, too.

Arctic Cat Bikes

Get away from it all. And all the way back.

For name of nearest dealer write: Arctic Enterprises, Inc., Thief River Falls, Minn. 56701

FFA IN ACTION

Becoming "Conscious"

Students at Alexandria, Virginia's suburban Edison High School were surprised when they saw two cows grazing on the school grounds. The cows were part of a four-day program billed as "Experiences in Consciousness."

Throughout the four days members of the FFA chapter at Nokesville from 20 miles away provided the cows for the milking experience and were on hand to help with other activities.

Edison instructor Glen Workman started the idea. "In this day and age most urban students take for granted that milk and other farm products come from the supermarket. When most people lived in the country, farm chores were a way of life, but it is different today. I want my students to become more aware of things they take for granted in their daily lives," he explained.

A cow milking experience in suburban Alexandria, Virginia, attracted press.

In the four hour-long class periods, Edison students had an opportunity to see for themselves. On Tuesday they milked a cow by hand. Then on Wednesday the class cleaned, cut, and wrapped a chicken. On Thursday the students made ice cream, and on Friday they tried their hand at backing a tractor through an obstacle course.

Sixteen members of the Nokesville Chapter participated in the "Consciousness" program. Two FFA members, who participated on Nokesville dairy judging team that placed first in Virginia last year, furnished the cows for the first day's experience in milking a cow by hand. Nokesville FFA'ers also furnished some of the ice cream making equipment and the tractor for Friday's obstacle course.

Instructor Workman at Edison contacted the National FFA Center about getting some cows to milk and the Center contacted the Nokesville Chapter. "This was an opportunity for our students to work cooperatively with another youth organization since the VICA (Vocational Industrial Clubs of America) Club at Edison High School was also involved in this project," says Nokesville Advisor Roger Crowsen.

Bamco Is His Name

Paxton, Illinois, Chapter sent in the winner in the contest to name the FFA Beaver symbol of community action.

Girl's Official Dress

The blue corduroy jacket was adopted by the Boards of National Officers and Directors as official dress for girls. The girls jacket will be the same as the one for the boys except that it will be longer and tailored for girls. Girls are also authorized to wear the same blue blazer as boys but with tailoring for style. The color and style of skirt or slacks are to be decided by the individual member.

Running the Show

A unique feature of the FFA Livestock Show of the Kansas State Fair is the selection of assistant superintendents of the show. They are second year students of the post-secondary production agriculture program of the North Central Kansas Area Vocational-Technical School of Beloit, Kansas.

Students of this program receive direct experience in all features of production agriculture from placement with some of the top farm operators in the country to participation in the National Western Livestock Show in Denver. Activities of the post-secondary students in the FFA show gives them first-hand experience in organizing, executing, and evaluating a livestock show.

Specifically, they are in charge of weighing, ear tagging, tatooing, receiving entries, assigning stalls and pens, serving as ring men, escorting the state FFA sweetheart or other queens, and

(Continued on page 36)

Join the FFA Alumni

THE FFA Alumni Association has been created to unite former FFA members. It's a unique opportunity for past members to support, promote, and assist the FFA, vocational agriculture, and the industry of agriculture.

A search for former members (including honorary and collegiate) is now underway. To become a member of the association, complete the coupon below and send it and $4.00 for annual dues to the FFA Alumni Association, National FFA Center, P. O. Box 15160, Alexandria, Virginia 22309.

If you know of other former FFA members who are also interested in the FFA Alumni, enclose their names and addresses, too.

Mail to: FFA Alumni Association, P.O. Box 15160, Alexandria, Virginia 22309

Name _____ Title _____

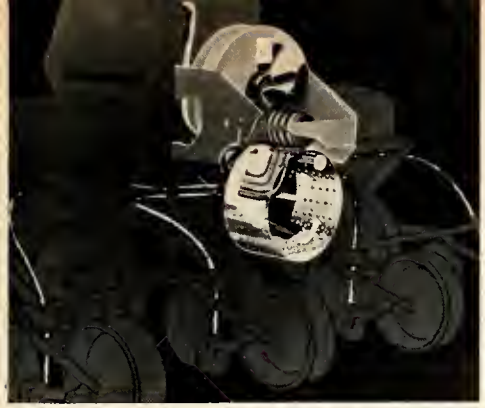
Address _____

City _____ State _____ Zip _____

Check the appropriate box(es):

- ☐ Enclosed is $4.00 for my annual FFA Alumni Association dues
- ☐ Enclosed are names and addresses of former FFA members
- ☐ Send more information about the FFA Alumni Association

Make checks payable to: FFA Alumni Association



This is the real core of International Harvester's new air powered planter.

A New Era For Planting

AN honest to goodness revolutionary invention in seed planters was recently introduced by International Harvester Company.

The 400 Series CYCLO planter features a central, air powered metering and delivery system that puts seed into the ground with accuracy never previously available in any planter using ungraded seed.

In the center and above the planting units is the only hopper on the planter —11-bushel capacity fiberglass.

Mounted in back and below the hopper is a ground-driven drum much like the tumbler in the family clothes dryer. The sides of the drum have dimpled pockets arranged in evenly-spaced rows around the drum. The master hopper constantly feeds into the seed drum.

Seeds are forced into each of the dimpled pockets by air pressure and are held there. As the drum revolves, seed for each row is released out of the dimpled pocket into row tubes and is carried by air pressure through the tubes and into the furrow behind the openers.

There is no bounce or scatter of the seed. Spacing and population is precisely determined by the ground-related speed of the drum. If more than one seed is carried into a drum pocket, a brush inside the drum brushes away any extras. All rows are planted at the same time even to the outside rows. Seeds are ejected individually at a constant rate.

To change drums, loosen one nut, slip the drum off, and put on another. There are three drums, one each for corn, soybeans, and milo. Extra drums are economically priced and reuseable.

The new CYCLO planter will be available in a 4-row model with 34- to 40-inch spacing and a 6-row trailing model with 28- to 30-inch spacing, convertible to 36- to 40-inch spacing.

Two Minnesota farmer-brothers invented the original concept.

More Power And Comfort

FARM tractors and dealerships will be fewer and bigger in the years ahead, according to officials of the J. I. Case Company. They made these observations in Ocala, Florida, while introducing their Agri King 1971 tractor line.

Continuing the same model numbers, the new models feature increased horsepower, greater safety, and operator comfort. Like the automotive industry, Case now identifies the new tractor line by cubic inch displacement symbols on the side of the hoods. Case contends that displacement is a more satisfactory index of work ability than is horsepower rating.

Both safety and comfort are combined in the new Case-built cab which offers protection from tractor noise, vibration, and the elements. The new air filtration system is designed to isolate the operator from dust, dirt, and pollen. The cab is designed to resist crushing in the event of an upset and without the cab, the operator platform is still vibration free.

Case officials predict that farm tractors will continue to get bigger—bigger even than the 150 h.p. 4-wheel drive model they now offer as the top of their line. Even so, the company offers a full line of the "compacts" ranging from 7 to 14 horsepower.

As farms continue to get bigger, the quality of the dealership must be improved, the officials believe. Downtime becomes more expensive with the larger tractors, for example, so dealers must provide services to hold such costs to a minimum.

Case tractors are now labeled with the cubic inch displacement on the hoods.

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You get your second can *free when you buy a can of new longer-lasting Absorbine Flychex.**

It lasts longer because we gave it four times the usual amount of "PBT." (That's the ingredient that gives repellents their staying power.)

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W.F. Young, Inc., Springfield, Mass. 01101

*Supply limited, so act soon.

FFA in Action

(Continued from Page 34)

keeping records of the FFA show.

Post-secondary agriculture students in Kansas have organized a state association called the Kansas Agribusiness Students' Association (KASA). Currently KASA is not organized under the umbrella of the FFA, but some day it may be as other states start similar groups and eventually a national organization is organized. The Beloit Agriculture Production students have been instrumental in the KASA organization from its beginning. *(Earl Wineinger, Assistant State Supervisor)*

International Chapter

Former participants in state or national FFA programs of international exchange have formed an International FFA Chapter. Thirty-six attended the organizational meeting in Kansas City during the 1970 National Convention.

Officers elected for 70-71 are Robert Junginger (Work Experience Abroad (WEA) 1969), President; Stan Bucher (WEA 1970), First Vice President; and Alfred Trujillo (WEA 1970), Second Vice President. Mr. Lennie Gamage at the National Center will serve as Secretary-Treasurer for the new chapter.

Former participants in state association exchanges, study tours, or special programs plus WEA are eligible. Annual dues of $2.00 were established.

The chapter has published the first edition of *Chapter News* which members receive in addition to *The Future Farmer Globe*. The *"Globe"* is published by the FFA to report on Future Farmer organizations in all countries.

It is estimated that since 1948 approximately 250 persons have participated and are now eligible to join.

The International Chapter was approved by the FFA Board of Directors and is organized much like the Capitol Hill Chapter in Washington, D. C.

Opens New Highway

Members of the Barnesville, Minnesota, FFA were honored to make the ribbon for opening ceremonies of a newly completed stretch of Highway I-94. When Minnesota Governor Harold Levander cut the ribbon, he had to use a wire cutter.

The ribbon, made of potatoes wired together, stretched 24 feet and was mounted on two paper-mache potatoes. The community service committee of the chapter made the ribbon to symbolize the importance of Red River Valley potatoes in the area.

In November, the chapter's committees on community service, cooperation, and public relations sponsored a scrap metal drive to raise funds for Minnesota's Camp Courage for crippled children. The drive had a dual effect in that it also helped clean up the countryside of nearly ten tons of scrap metal, old batteries, and car radiators. *(Doug Braton, Reporter)*

Showing Thankfulness

Jonesboro-Hodge, North Carolina, FFA Chapter conducted its Thanksgiving program for faculty, students, parents, and visiting guests. Their theme was "What To Be Thankful For."

A musical prelude was played by Charles Tatum. Stephen Bucklelew recited the FFA creed, and Johnnie Sneed led a prayer. State Vice President Charles Johns was the main speaker.

Other FFA members presented musical selections, served as ushers for the audience, and reported on the chapter's major projects. Lee Glands told "Why I'm Happy to be an FFA Member."

Before the program, members of the local chapter delivered fruit to the local convalescent homes. *(Randy Layfield, Reporter)*

Hometown Recognition

DR. Norman Borlaug received an FFA Distinguished Service award during "Recognition Day" in his hometown of Cresco, Iowa. Cresco Chapter President Craig Church stated as he presented the award to the Nobel Peace Prize winner, "This is given in appreciation for your contribution to the world and agriculture."

Craig Church presenting the award to the world renown ag scientist.

The "Recognition Day" festivities were held in the high school gymnasium on December 19, 1970, and attracted persons from Washington, D.C., to Denver, Colorado. Closed circuit television and speaker systems were also set up in overflow rooms at the high school to accommodate an audience of 2,500. They heard Dr. Borlaug deliver a short address along with other talks by those who have worked or been associated with the scientist. At a reception following the program everyone was given the opportunity to shake hands with their hometown agricultural dignitary.

Other activities during the day included press conferences in the morning and a noon luncheon at a local church. A short reunion of the 1932 Cresco class was held before the "Dr. Norman Borlaug Recognition Day" program.

(See "Former Vo-Ag Student Wins Nobel Peace Prize," December-January, 1970-71 issue, page 6.)

Letter of Appreciation

December 28, 1970

The Cresco Chapter
Future Farmers of America
Crestwood High School
Cresco, Iowa

Dear friends:

I wish to thank each and everyone of you for the Distinguished Service Plaque you bestowed upon me on December 19, 1970.

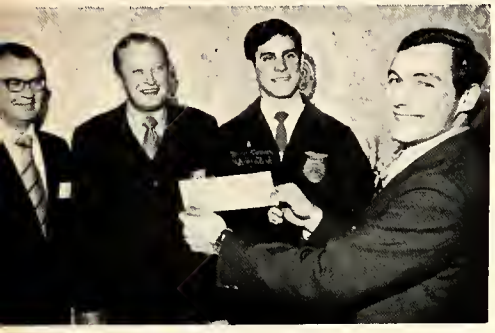
You have chosen agriculture as your life's work. I am convinced that there is no other work which is of more importance in this troubled world than that of producing food. You may not have chosen a career which will make you as rich as you might have become if you studied in one of the other professions – but you will have many other satisfactions you cannot buy with money. Farm life or life in a small town in a farming community avoids many of the unpleasant aspects of life that are today present in all large cities.

Best of luck to you all, and thanks again for your kindness.

Sincerely yours,
Norman E. Borlaug

What the Officers Do

National Vice Presidents Humphreys, on left, and Dooley, on right, were guests on Voice of America broadcast.



National President Dan Lehmann, right, accepts a contribution to the National FFA Foundation from American Oil Foundation representatives. Illinois President Mercer Turner was on hand.

The entire National Officer team met with Secretary of Agriculture Hardin.

Hides for Charity

The Bedford, Pennsylvania, FFA Chapter members collected and sold deer hides during the past deer season. Proceeds went to the local New Hope Care Center for use in their programs for retarded children.

Bedford County ranks among the top Pennsylvania counties in numbers of deer killed annually. Fellow FFA members from the other three chapters in the county, Everett, Chestnut Ridge, and Northern Bedford County, contributed hides to the cause. Other hunters in the community were made aware of the project through radio announcements and newspaper articles. They re-

(Continued on Page 39)

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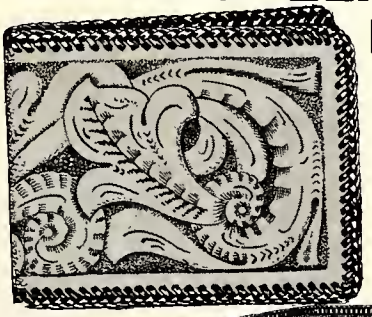

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SPORTRAIT

By Stan Allen

Cale Yarborough

TOP drivers of the United States Auto Club (USAC) saw a new challenger for their title after the first race at Rafaela, Argentina, on February 28. He was Cale Yarborough, driving in his first USAC race after quitting the National Association for Stock Car Auto Racing (NASCAR) circuit.

Cale is from Timmonsville, South Carolina, where you will see a sign outside of town reading: "Home of Cale Yarborough, The World's Fastest Stock Car Driver." He took vocational agriculture for four years at Timmonsville High School and was a member of their FFA chapter. Cale was a good athlete and an all-state fullback in football. He received scholarship offers and an offer to try out for the Washington Redskins but by that time, had already decided on racing cars for a career.

Cale began his auto racing career by driving in a soapbox derby when he was 11 years old. He built his first race car—a 1935 Ford—when he was 15. He raced on the dirt tracks around his home area and quickly earned a reputation of driving hard—always "flat out."

It wasn't long before he was offered a ride in a better car and he has been racing since then. Many drivers get their start this way as a good racing stock car represents an investment of $20,000 or more, plus a driver must have a pit crew, truck, and spare parts. Cale's athletic build was a good asset, too, as it takes plenty of muscle to control a 4,000 pound car powered by a 600 horsepower engine that will hit 220 mph.

Yarborough won the South Carolina state championship in sportsman competition when he was only 17 and drove his first stock car race on a NASCAR track at 18. He didn't get to finish as the officials found out that he was under age and made him drop out. The Ford Motor Company put him on a trial basis in 1964 but had to drop him when their budget was cut in 1965.

Cale got his big break later that year when he was asked to drive a Banjo Matthews factory-supported Ford in the NASCAR World 600 at Charlotte, North Carolina. He qualified the Ford in fourth place and gave the leaders a battle until a mid-race wreck put him out of the running. He had his first taste of success when he finished second at the 500 miler at Rockingham, North Carolina.

In 1966, his first full season, he finished second in the Daytona 500 just one lap behind Richard Petty. Cale had been penalized a lap for passing the pace car on a yellow flag. Two weeks later he finished 4 seconds behind the leader in the Peach Blossom 500 at Rockingham after leading for 177 laps. Cale drove into the winner's circle at two super-speedways in 1967—Atlanta, Georgia, and Daytona, Florida—and finished in the top five in seven races that year and won $56,685.

1968 was Cale's biggest year thus far as he rewrote the NASCAR record book, winning four super-speedway races and more than $136,000. His first race was a come-from-behind win over Leroy Yarbrough (no relation) in the Daytona 500 where his qualifying speed of 189.222 mph was the fastest speed ever recorded by a stock car on a closed track. He also won the Atlanta 500, the Firecracker 400 at Daytona, and the Southern 500 at Darlington, South Carolina. He's the first driver in history to win four super-speedway races in one year.

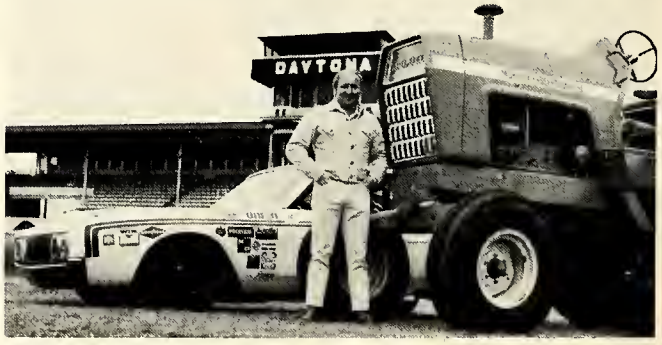
Bad luck was to ride with Cale in 1969 as he seemed to blow tires or become involved in pile ups in every race. He won the Atlanta 500 and Irish Hills, Michigan's Motor State 500 in mid-June. But then an accident in the Texas 500 at College Station almost ended his career. His Mercury blew a tire and, running out of control at better than 170 mph, the car slammed into the wall of the first turn. The impact swung Cale around in his harness and threw him backwards against the inside roll bar, breaking a shoulder blade and cracking a kneecap. It looked as if his racing days might be over, or that he would at least be out for quite a few years.

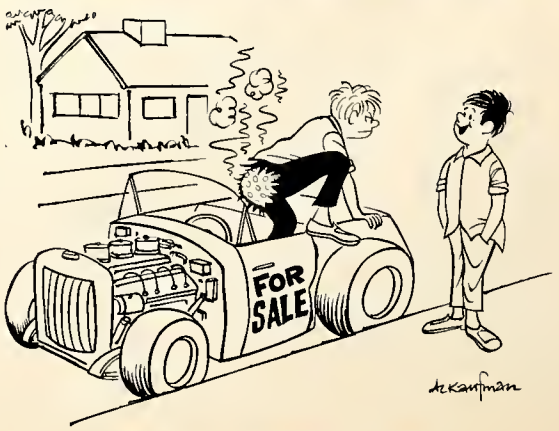
Cale's stamina and determination had him back behind the wheel last year. His luck didn't change, though, as indicated by the Daytona 500 race. He qualified again with a record 194.015 mph and won the first 125-mile qualifying race with an amazing record 183.295 mph average. Then his engine blew up on the thirty-first lap of the big race. Cale did hang in there and won two of the super-speedway races last year.

Cale won 13 super-speedway races in his five years of NASCAR Grand National racing, a record that will make his new competitors keeps an eye on him. He should do well on the bigger cars in the USAC as he already drove in the 1966 and 1967 Indianapolis 500.

Cale will keep busy when he hangs up his racing helmet, too, as he still maintains an active interest in farming. He presently farms around 1,000 acres, growing soybeans, cotton, tobacco, and timberland.

Cale is as at ease driving heavy duty farm equipment as he is pushing his Mercury "flat out" at 200 mph speeds.





"Notice how she hugs the road?"

FFA in Action

(Continued from Page 37)

sponded by donating many hides.

Mr. Joseph Thompson, father of Bedford Chapter President and local taxidermist, prepared and sold the hides. The chapter presented $220 to New Hope. *(Ed Emrick, Reporter.)*

Greeting the President

Six members of Ankeny, Iowa, Chapter and two members of Southeast Polk at Runnels were among those greeting President Nixon in Des Moines on his arrival for meetings on rural America. The FFA'ers, along with several 4-H'ers served as "pages" and "doormen" at the hotel for the President's visit.

Royal Queen Pageant

The FFA will continue its participation in the American Royal Queen Pageant. Candidates are to be recommended by state FFA associations and must "be an FFA member or past FFA member; FFA sweetheart or past FFA sweetheart between the ages of 16 and 21." Except that states will receive information and application forms in time to make selections, if desired, at their state conventions, the same procedures are to be used in 1971.

Honoring the Unknown

Thanksgiving weekend the Big Walnut, Sunbury, Ohio, Chapter sponsored a trip to Washington, D.C., highlighted by placing a wreath at the Tomb of the Unknown Soldier.

Big Walnut, Ohio, FFA took part in a ceremony at the Tomb of the Unknown.

Thirty-eight members traveled by bus to the nation's capital where they visited the Capitol Building, the National Archives, the Smithsonian Institute, Washington Monument, and Lincoln Memorial. The group also saw Washington National Cathedral, Iwo Jima Memorial, and Arlington National Cemetery.

The Honor Guard on duty at the Tomb of the Unknown Soldier assisted the chapter in a wreath placing ceremony. The ceremony included taps and a prayer by Chapter Chaplain Bob Fisher. Other official ceremony delegates included Dan Brenner, president; Steve Lord, junior representative; Marvin Hall, sophomore representative; and Wayne Hale, freshman representative.

Leaving Washington, the group visited Mount Vernon and saw the National FFA Center.

Community Exhibit

The Princeton, Missouri, Chapter constructed a display about "Building Our American Communities" for their state fair exhibit.

The display was in two sections with a model of the problem community on the left and an ideal community on the right side.

The problem community was depicted by an old log cabin, gravel roads, trash and garbage along the streets with no grass and dead trees along the roadways. An action list indicated steps necessary to clean up the problem community and achieve the goal of an ideal community.

The ideal community was displayed by a modern home, paved streets and sidewalks, grass in lawns and along the roadways, a picnic and recreational area with trash cans, and trees growing in the yard and park areas. *(Donald Rogers, Advisor)*

Three Consecutive Awards

Parent's Magazine presented its Youth Group Award for the third consecutive year to the Indian Valley Chapter of Gnadenhutten, Ohio. The award recognizes young people's efforts of service to the community.

The Indian Valley Chapter, with Mr. Terry Hiller as advisor, is a young chapter, having been in existence for a little over five years.

Indian Valley FFA became concerned over the image of young people because of "some bad actors among the ranks of youth." They decided to elevate the image of youth through an active community service campaign.

Over the years chapter members helped the community by constructing 12 picnic tables, planting 55 shrubs at the county fair grounds, and cutting and

(Continued on Next Page)

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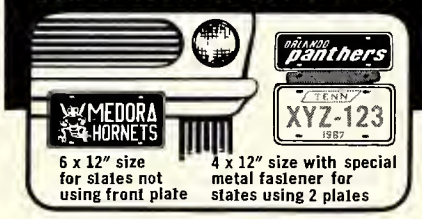

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FFA in Action

(Continued from Page 39)

erecting Christmas trees for the village. Members also assisted seven ill and injured farmers. They continue to yield check Young and Adult Farmers' fields.

Their large project each year is the collection, repair, and distribution of over 1,500 toys at Christmas, plus distributing food and clothing to needy.

Indian Valley members served their school by repairing athletic equipment, painting signs and the high school stage, building a school fence, tuning-up the school tractor, making two- and seven-man football sleds, and extending a sidewalk. They also assisted by mowing the athletic field and school lawn, cleaning school windows after Halloween, raking leaves, transplanting trees, cleaning the incinerator, and other odd jobs.

The chapter has financed many of the projects like extension of the sidewalk, rodent control, and repairs and paint for toys from their treasury. Other donations were made to the Ohio FFA Foundation, Buckeye Boys' State, Ohio Youth Choir, National Honor Society, and Smithville Boys' Village. The chapter further made door-to-door collections for FFA Christian Rural Overseas Program (CROP). *(Gary Thornton, Reporter)*

Vietnam Development

The FFA began providing technical assistance in March, 1970, to the newly organized Future Farmers of Vietnam (FFVN) in a joint project supported by the Agency for International Development. The FFVN organization now has more than 1,000 members located in ten vocational agriculture schools.

As a result, a manual has been prepared and worthwhile member projects are underway. FFA chapters are needed, however, to provide additional assistance to FFVN chapters. Your chapter may wish to "adopt" an FFVN chapter, start correspondence, and furnish them with needed educational materials. Write to the National FFA Center, P. O. Box 15160, Alexandria, Virginia 22309, for details.

Stillwater, Minnesota, FFA; Cleburne, Texas, Chapter; and Graham, Texas, FFA have provided financial assistance in the initial stages of the project.

The International Department at the National FFA Center has also prepared a slide series on FFVN which includes a script and tape. Interested FFA chapters may borrow these slides for use at chapter meetings.

"It started out as a dutch treat date with Herbie. Then, I lost the toss double or nothing."

Calendar of Events

May 11-14—National Seminar on Agribusiness and Natural Resources Education, Denver, Colorado

October 13-15—National FFA Convention Kansas City, Missouri

National FFA Conferences

Washington, D.C. - Alexandria, Virginia

June 14-19, June 21-26—Chapter Impact

July 5-10, July 12-17—Leadership-Citizenship

July 18-25—State and National Officers

August 2-7—Agriculture Public Relations

August 9-14—Agriculture Career

State FFA Conventions

May 2-5—Minnesota-University of Minnesota, St. Paul
May 3-5—Nevada-Reno
May 5-7—California-San Luis Obispo
May 5-7—Tennessee-Nashville
May 6-8—New York-Canajoharie
May 20-22—Vermont
May 24-25—Puerto Rico
May 31-June 2—Mississippi-Jackson
June 1-4—North Dakota
June 2-4—Arkansas-Hot Springs
June 2-4—Kentucky-Louisville
June 3-4—Alabama-Montgomery
June 6-8—New Mexico-Albuquerque
June 6-8—Colorado-Lamar
June 8-11—Louisiana
June 8-10—South Carolina-Clemson
June 9-11—North Carolina-North Carolina State University, Raleigh
June 13-17—Virginia-Blacksburg
June 14-16—Wisconsin-Green Lake
June 14-17—Washington-Washington State University, Pullman
June 14-18—Florida
June 15-17—Illinois-University of Illinois, Urbana
June 21—Connecticut
June 21-23—Maine-University of Maine, Orono
June 21-23—Maryland-University of Maryland, College Park
June 22-24—Indiana-Lafayette
June 24-25—New Jersey
June 29-July 1—Pennsylvania

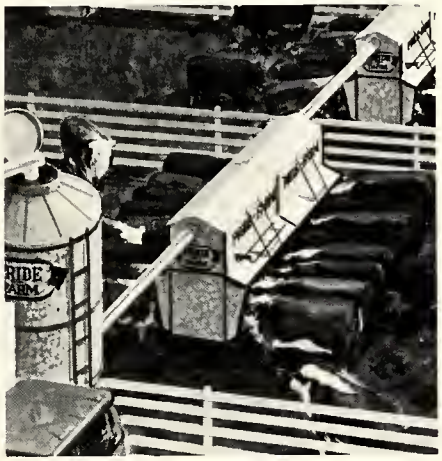
State conventions held later will appear in future issues.

Something New

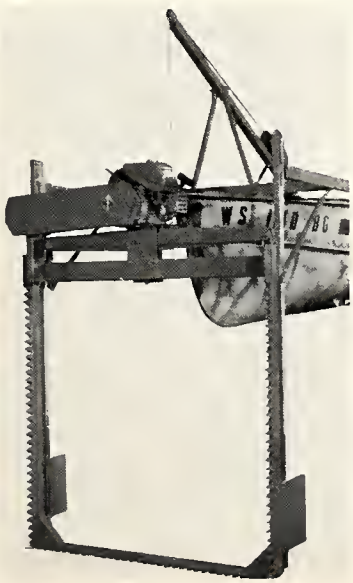
The new four-cycle engine Tricart by New Holland will pull gang mowers, utility trailers, and serve as a sports vehicle. Options include a rod and gun rack, light kit, and carry-all saddlebags.

Artic Enterprises' new Climber is powered by a 172 cubic centimeter engine and has a sprocket ratio of 10/54. Many extras are available.

New portable 180-bushel Pride of the Farm feeders by Hawkeye Steel, Waterloo, Iowa, handle 50 head each and can be connected to powerfill with augers.



The Aquatic Weed Cutter, built by Air-Lec Industries, Madison, Wisconsin, mounts on regular boats and cuts 3½-foot wide and deep swaths in aquatic growth. Blades self-sharpen.



The Twister, a new flex steering lawn tractor has 4-wheel drive, a 14 hp engine, and front and rear 3-point hitches. The 4WD is made by Bruce Manufacturing, Minneapolis, Minnesota.

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Holstein bulls	65.00	Holstein bulls	80.00
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HAVE YOU HEARD THIS ONE

The Sunday school teacher had been lecturing the youngsters on keeping their minds as clean as their bodies. To emphasize the point she held up a bar of soap. *"Oh, Oh,"* whispered one lad to another, *"here comes the commercial."*

Leroy Steffen
Long Prairie, Minnesota

Tom: *"Your sister must be running with fast men."*
Steve: *"And hasn't caught one yet."*

Steve Semling
Fountain City, Wisconsin

"In typing my speech, please refrain from adding such superlatives as 'the most' and 'the greatest.' "

Ed: *"Do you think anyone can tell the future with cards?"*
Bob: *"My mother can. She took one look at my report card and told me exactly what would happen when Dad got home!"*

Sherry Henson
Sedalia, Kentucky

Father to small boy at the table: *"One more bite like that and you will leave the table."*
Small boy: *"One more bite like that and I'll be finished."*

Janice Loudy
Rogersville, Tennessee

Waiter: *"How's the food?"*
Diner: *"I could get more nourishment from biting my lips."*

Rebecca Willis
Reiderville, North Carolina

"Our dog is like one of the family."
"Really? Which one?"

Dale Louis Allen
Sturgis, Kentucky

Two puppies watched a group of teenagers dancing. One turned to the other and said, *"If we acted like that, they would worm us!"*

Morris Rettman
Hutchinson, Minnesota

Question: How do you make antifreeze?
Answer: Take away her pajamas.

Theresa Schute
Hazel Green, Wisconsin

"My dad is an Elk, a Lion, a Moose, and an Eagle."
"What does it cost to see him?"

Teddy Hartsfield
Burns, North Carolina

When the motorist asked the farmer how far it was to the next town, the farmer told him that it was "two miles as the crow flies."
"Well," persisted the motorist, *"how far is it if the crow has to walk and roll a flat tire?"*

Henry Sherrer
Bay City, Texas

He: *"Last night you said there was something you liked about me."*
She: *"Yes, but you spent it all."*

Michael Billings
Hays, North Carolina

A man playing golf was hitting all around the golf ball killing 10 and 20 ants in each stroke. One ant said, *"We better get on the ball, or we'll all be killed."*

Irene Newton
Johnesville, Arkansas

Dentist: *"What kind of filling do you want in your tooth?"*
Wise guy: *"Chocolate."*

Otis Weaver
Twin City, Georgia

A small boy was wandering through a sheep pasture when he met a sheep. He sang, *"Black sheep, black sheep, have you any wool?"*
The sheep looked up disgustingly and said, *"What did you think I had, nylon?"*

Merle Yoder
Gladys, Virginia

Sam: *"What did the Judge say when the skunk walked into the courtroom?"*
Tom: *"Odor in the court."*

Daniel Smith
Jacksonville, Georgia

"Is the water healthy on this farm?"
"Sure, we only use well water."

Greg Doak
Osborn, Missouri

Inflation has become so bad that it has hit the price of feathers. Even down is up.

Darrell Siler
Siler City, North Carolina

Father to party-bound teenage daughter: *"Don't rush home. I have a lot of calls to catch up on."*

Billy Hazelwood
Summerfield, North Carolina

Charlie, the Greenhand

"There are still a few cows out in the barn that the rustlers haven't got."

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